



DOCUMENTATION - DOKUMENTATION - DOCUMENTACIÓN

POMPE A BILLE / BALL PUMP / KUGELPUMPE / BOMBA CON BOLA

EOS 53-C360

Notice / Manual / Betriebsanleitung / Libro : 582.025.110 - 1605

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Annule / Supersede / Ersetzt / Anula :

Modif. / Änderung :

NOTICE ORIGINALE / TRANSLATION FROM THE ORIGINAL MANUAL
/ ÜBERSETZUNG DER ORIGINAL BETRIEBSANLEITUNG
/ TRADUCCIÓN DEL MANUAL ORIGINAL

IMPORTANT : Lire attentivement tous les documents avant le stockage, l'installation ou la mise en service du matériel concerné (à usage strictement professionnel).

Before assembly and start-up, please read and clearly understand all the documents relating to this equipment (professional use only).

WICHTIGER HINWEIS: Vor Lagerung, Installation oder Inbetriebnahme des Geräts bitte sämtliche Dokumente sorgfältig lesen (Einsatz nur von geschultem Personal).

IMPORTANTE : Lea con atención todos los documentos antes de almacenar, instalar o poner en marcha el equipo (uso exclusivamente profesional).

PHOTOS ET ILLUSTRATIONS NON CONTRACTUELLES. MATÉRIELS SUJETS A MODIFICATION(S) SANS PREAVIS.

THE PICTURES AND DRAWINGS ARE NON CONTRACTUAL. WE RESERVE THE RIGHT TO MAKE CHANGES WITHOUT PRIOR NOTICE.

ALLE IN DIESEM DOKUMENT ENTHALTENEN SCHRIFTLICHEN ANGABEN UND ABBILDUNGEN STELLEN DIE NEUESTEN

PRODUKTIINFORMATIONEN DAR. WIR BEHALTEN UNS DAS RECHT VOR, JEDERZEIT OHNE VORANKÜNDIGUNG ÄNDERUNGEN VORZUNEHMEN.

LAS FOTOGRAFÍAS E ILUSTRACIONES NO SON VINCULANTES. LOS MATERIALES ESTÁN SUJETOS A CAMBIOS SIN PREVIO AVISO.

KREMLIN - REXSON

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INSTALLATION AND SAFETY INSTRUCTIONS

TRANSLATION OF THE ORIGINAL MANUAL

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1. SAFETY INSTRUCTIONS

GENERAL SAFETY INSTRUCTIONS



CAUTION : The equipment can be dangerous if you do not follow our instructions concerning installation and servicing described in this manual and in accordance with applicable European standards and local national safety regulations.

Please carefully read all the instruction literature before operating your equipment.

Only trained operators can use the equipment (To acquire an essential training, please contact the "KREMLIN REXSON University" training center - Stains).

The foreman must ensure that the operator has understood the safety instructions for this equipment as well as the instructions in the manuals for the different parts and accessories.

Read carefully all instruction manuals, label markings before operating the equipment.

Incorrect use may result in injury. This equipment is for professional use only. It must be used only for what it has been designed for. Never modify the equipment. The parts and accessories supplied must be regularly inspected. Defective or worn parts must be replaced.

Guards (motor cover, coupling shields, connectors,...) have been designed for a safe use of the equipment.

The manufacturer will not be held responsible for bodily injury or failure and / or property damage due to destruction, the overshadowing or the partial or total removal of the guards.

Never exceed the equipment components' maximum working pressure.

Comply with regulations concerning safety, fire risks, electrical regulations in force in the country of final destination of the material. Use only products or solvent compatible with the parts in contact with the material (refer to data sheet of the material manufacturer).

PICTOGRAMS

					
NIP HAZARD	WARNING MOVING ELEVATOR	WARNING MOVING PARTS	WARNING MOVING SHOVEL	DO NOT EXCEED THIS PRESSURE	HIGH PRESSURE HAZARD
					
RELIEF OR DRAIN VALVE	WARNING HOSE UNDER PRESSURE	WEAR GLASSES OBLIGATORY	WEAR OF GLOVES IS OBLIGATORY	PRODUCT VAPOR HAZARDS	WARNING HOT PARTS OR AREAS
					
ELECTRICAL HAZARD	WARNING FIRE HAZARDS	EXPLOSION HAZARDS	GROUNDING	WARNING (USER)	WARNING SERIOUS INJURIES

FIRE - EXPLOSION - SPARKS - STATIC ELECTRICITY HAZARDS



A poor earth connection, inadequate ventilation, sparks or static electricity can cause an explosion or fire. to avoid these risks when using or servicing KREMLIN REXSON equipment, the following safety procedures must be followed :

- ensure a good earth connection and ground the parts to be handled i.e. solvents, materials, components and equipment,
- ensure adequate ventilation,
- keep working area clean and free from waste solvents, chemicals, or solid waste i.e. rags, paper and empty chemicals drums,
- never use electrical switches / power if in an atmosphere of volatile solvent vapour,
- stop working immediately in case of electrical arcs,
- never store chemicals and solvents in the working area.
- use paint whose flash point is the highest possible to prevent from any formation of gas and inflammable vapours (refer to materials' safety instructions),
- install a cover on the drums to reduce the diffusion of gas and vapours in the spraybooth.

TOXIC PRODUCT HAZARDS



Toxic products or vapours can cause severe injury not only through contact with the body, but also if the products are ingested or inhaled. It is imperative :

- to know the material products and their risks,
- notified or hazardous materials must be stored in accordance with the regulations,
- the material must be stored in an appropriate container, never place materials in a container where there is a risk of spillage or leakage,
- a procedure must be applied for the safe disposal of waste material. It must comply with all prevailing regulations and legislations of the country where the equipment is to be used,
- protective clothing should always be worn in compliance with the material manufacturers' recommendations,
- depending on the application and chemical safety instructions, safety glasses, hearing protective earplug, gloves, foot wear, protective masks and possible breathing equipment should be worn to comply with the regulations (Refer to chapter "Safety equipment of KREMLIN selection guide).



CAUTION!



It is forbidden to use material containing high concentrations of halogenated hydrocarbon solvents with **aluminium or zinc fillers** .Non-compliance with the instructions may cause explosion risk causing serious or fatal injury.

EQUIPMENT REQUIREMENTS

Guards (motor cover, coupling shields, connectors,...) have been designed for a safe use of the equipment.

The manufacturer will not be held responsible for bodily injury or failure and / or property damage due to destruction, the overshadowing or the partial or total removal of the guards.

PUMP



Before carrying out any work, it is imperative to read and clearly understand the disassembly and reassembly instructions before servicing. The operator must understand the equipment and the safety instructions. These instructions are available in the equipment manuals.

The air motor is designed to be mounted with a pump. Never modify any components or couplings. When operating, please keep hands away from moving parts. Before starting up the equipment, please read the PRESSURE RELIEF instructions. Please ensure that any relief or drain valves fitted are in good working order.

HOSES

- Keep hoses out of circulation areas, moving parts or hot surfaces,
- Never expose product hoses to temperature higher than + 60°C / 140° F or lower than 0°C / 32° F,
- Never pull or use the hoses to move the equipment,
- Tighten all fittings as well as the hoses before operating the equipment,
- Check the hoses regularly; change them if they are damaged,
- Never exceed the working pressure (WP) indicated on the hose.

USED PRODUCTS

Considering the wide variety of products that are available and can be used in our equipment it is impossible to check and make recommendations for all chemical data, regarding the risks of possible chemical attack and their long term chemical reaction

KREMLIN REXSON can not be held liable for :

- Compatibility of wetted parts,
- Risks to staff and the surroundings,
- for worn or defective parts, for faulty equipment or units, or the quality of final product.

It is the responsibility of the user to know and prevent any possible risks such as toxic vapours, fires or explosions. He shall determine the risks of immediate reactions or pursuant to repeated exposures of the staff,

KREMLIN REXSON shall not be liable for physical injuries, direct or indirect material damages caused by the use of chemicals.

2. HANDLING



Check the weight and the dimensions of the equipment
(**refer to 'Technical features' section of the instruction manual**)

If weight and dimensions are too important, the unloading must be carried out by means of a forklift or any other appropriate means with a qualified personnel and in a clear horizontal area to prevent from risks of damage injury or an accident.

The centre of gravity is not in the centre of the machine : carry out by hand a stability-test after having lifted the whole at 10 cm / 3.937" maximum.

After the unloading, the handling of the whole (eg: elevator pump) is carried out by means of a pallet truck taking the bottom part of the frame.

Remark : Each pump motor is fitted with a ring. The ring is designed for the hoisting of one pump and can not be used for the handling of the complete machine.

3. STORING

Storing before installation :

- Storing ambient temperature : 0 / +50 °C / 0 / +122°F
- Protect the whole against dust, water trickling, dampness and shocks.

Storing after installation :

- Operating temperature : +15 / +35 °C / +59 / +138.2° F
- Protect the whole against dust, water trickling, dampness and shocks.

4. INSTALLATION OF THE EQUIPMENT

The machine is installed on a stable horizontal floor (for eg a concrete flag).



To avoid risks caused by static electricity, the equipment as well as its components must be grounded.

- **For the pumping equipments** (pumps, pneumatic rams, frame...), a section wire of 2.5 mm² is fixed on the material. Use this wire to connect the material to "the general ground". In case of severe environments (mechanical protection of the wire of earthing insufficient, vibrations, mobile material...) where function damages at the ground are probable, the user have to replace the provided wire of 2.5 mm² by a device more adapted to its environment (wire with a more important section, bonding strip, fixing by thimble with eyelet...),

The continuity of the ground must be controlled by a qualified electrician. If the continuity of the ground is not ensured, check the terminal, the wire and the earthing point. **Never** use the material without have solved this problem.

- In the severe cases of environments (mechanical protection of the wire of earthing insufficient, vibrations, mobile material...) where damages of the function put at the ground are probable, the user will have to replace the wire of 2.5 mm² provided, by a device more adapted to its environment (wire of more important section, bonding strip, fixing by thimble with eyelet...),
- **The gun** must be 'grounded' via a material hose or an air hose. In case of spraying by means of a gun with cup, the air hose must be conductive,
- **The materials to be painted** must also be grounded.

All the materials situated in the working area shall be grounded.



- **Never store** more than necessary inflammable materials inside the working area,
- The materials must be stored into **approved drums** and grounded,
- Use only grounded **metals containers** for the use of cleaning solvents,
- **Cardboard and paper are prohibited.**

5. MARKING OF THE EQUIPMENT

Each equipment has a marking plate.

The plate consists of the name of the manufacturer, the equipment part number and important information for correct use of the equipment (air pressure, electric power,...).



FR <u>Pour une utilisation sûre, il est de votre responsabilité de :</u> • Lire attentivement tous les documents contenus dans le CD joint avant la mise en service de l'équipement, • D'installer, d'utiliser, d'entretenir et de réparer l'équipement conformément aux préconisations de KREMLIN REXSON ainsi qu'aux réglementations nationales et/ou locales, • Vous assurez que les utilisateurs de cet équipement ont été formés, ont parfaitement compris les règles de sécurité et qu'ils les appliquent.	UK <u>To ensure safe use of the machinery, it is your responsibility to:</u> • Carefully read all documents contained on the enclosed CD before putting the machinery into service, • Install, use, maintain and repair the machinery in accordance with KREMLIN REXSON's recommendations and national and/or local regulations, • Make sure that the users of the machinery have received proper training and that they have perfectly understood the safety rules and apply them.	DE <u>Eine sichere Nutzung setzt voraus, dass Sie:</u> • alle in der CD enthaltenen Dokumente vor der Inbetriebnahme der Anlage aufmerksam lesen, • die Anlage im Einklang mit den Empfehlungen von KREMLIN REXSON sowie mit den nationalen und/oder lokalen Bestimmungen installieren, verwenden, warten und reparieren, • sich vergewissern, dass die Nutzer dieser Anlage angemessen geschult wurden, die Sicherheitsbestimmungen verstanden haben und sie anwenden.
ES <u>Para una utilización segura, será de su responsabilidad:</u> • leer atentamente todos los documentos que se incluyen en el CD adjunto antes de la puesta en servicio del equipo, • instalar, utilizar, efectuar el mantenimiento y reparar el equipo con arreglo a las recomendaciones de KREMLIN REXSON y a la normativa nacional y/o local, • cerciorarse de que los usuarios de este equipo han recibido la formación necesaria, han entendido perfectamente las normas de seguridad y las aplican.	IT <u>Per un uso sicuro, vi invitiamo a:</u> • leggere attentamente tutta la documentazione contenuta nel CD allegato prima della messa in funzione dell'apparecchio, • installare, utilizzare, mantenere e riparare l'apparecchio rispettando le raccomandazioni di KREMLIN REXSON, nonché le normative nazionali e/o locali, • accertarvi che gli utilizzatori dell'apparecchio abbiano ricevuto adeguata formazione, abbiano perfettamente compreso le regole di sicurezza e le applichino.	PT <u>Para uma utilização segura, é da sua responsabilidade:</u> • Ler atentamente todos os documentos incluídos no CD em anexo antes de pôr o equipamento em funcionamento, • Proceder à instalação, utilização, manutenção e reparação do equipamento de acordo com as preconizações de KREMLIN REXSON, bem como com outros regulamentos nacionais e/ou locais aplicáveis, • Assegurar-se que os utilizadores do equipamento foram devidamente capacitados, compreenderam perfeitamente e aplicam as devidas regras de segurança.
NL <u>Voor een veilig gebruik dient u:</u> • alle document op de bijgevoegde cd aandachtig te lezen alvorens het apparaat in werking te stellen, • het apparaat te installeren, gebruiken, onderhouden en repareren volgens de door KREMLIN REXSON gegeven aanbevelingen en overeenkomstig de nationale en/of plaatselijke reglementeringen, • zeker te stellen dat de gebruikers van dit apparaat zijn opgeleid, de veiligheidsregels perfect hebben begrepen en dat zij die ook toepassen.	SE <u>För en säker användning av utrustningen ansvarar ni för följande:</u> • Läs noga samtliga dokument som finns på den medföljande cd-skivan innan utrustningen tas i drift. • Installera, använd, underhåll och reparera utrustningen enligt anvisningarna från KREMLIN REXSON och enligt nationella och/eller lokala bestämmelser. • Försäkra er om att användare av denna utrustning erhållit utbildning, till fullo förstått säkerhetsföreskrifterna och tillämpar dem.	FI <u>Käytön turvallisuuden varmistamiseksi velvollisuutesi on:</u> • Lukea huolella kaikki CD:llä olevat asiakirjat ennen laitteiston käyttöönottoa, • Noudattaa laitteiston asennuksessa, käytössä, kunnossapidossa ja huollossa KREMLIN REXSON in suosituksia sekä kansallisia ja/tai paikallisia määräyksiä, • Varmistaa, että laitteiston käyttäjät ovat koulutettuja ja ymmärtävät täysin turvallisuusmääräykset ja miten niitä sovelletaan.
PL <u>Dla zapewnienia bezpiecznego użytkowania na użytkownika spoczywa obowiązek:</u> • Uważnego zapoznania się ze wszystkimi dokumentami znajdującymi się na załączonej płycie CD przed pierwszym uruchomieniem urządzenia, • Instalowania, użytkowania, konserwacji i naprawy urządzenia zgodnie z zaleceniami firmy KREMLIN REXSON oraz z przepisami miejscowymi, • Upewnienia, że wszyscy przeszkoleni użytkownicy urządzenia rozumieli zasady bezpieczeństwa i stosują się do nich.	CS <u>Pro bezpečné používání jste povinni:</u> • Před uvedením zařízení do provozu si pozorně přečíst veškeré dokumenty obsažené na příloženém CD, • Nainstalovat, používat, udržívat a opravovat zařízení v souladu s pokyny firmy KREMLIN REXSON a s národními a/nebo místními legislativními předpisy, • Ujistit se, že uživatelé tohoto zařízení byli vyškoleni, že dokonale pochopili bezpečnostní pravidla a že je dodržují.	RU <u>Для целей безопасного использования необходимо:</u> • Ознакомиться со всеми документами, содержащимися в прилагаемом компакт-диске до ввода оборудования в эксплуатацию; • Устанавливать, использовать, производить техническое обслуживание и ремонт оборудования в соответствии с рекомендациями KREMLIN REXSON и национальным и/или местным законодательством; • Убедиться, что пользователи настоящего оборудования прошли подготовку, надлежащим образом усвоили правила безопасности и обеспечивают их соблюдение.

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VALABLE JUSQU'AU 19 AVRIL 2016 VALID UNTIL 19 APRIL 2016 GÜLTIG BIS ZUM 19. APRIL 2016 VALIDEZ HASTA EL 19 DE ABRIL DE 2016 VALIDO FINO AL 19 APRILE 2016 APLICÁVEL ATÉ 19 DE ABRIL DE 2016 GELDIG TOT 19 APRIL 2016 GÄLLER TILL OCH MED DEN 19 APRIL 2016 VOIMASSA 19.4.2016 SAAKKA WAŻNOŚĆ DO 19 KWIETNIA 2016 R. PLATÍ DO 19. DUBNA 2016 ДЕЙСТВИТЕЛЬНО ДО 19 АПРЕЛЯ 2016 ГОДА		<u>DECLARATION CE DE CONFORMITE</u> <u>EC DECLARATION OF CONFORMITY</u> <u>EG KONFORMITÄTSERKLÄRUNG</u> <u>DECLARACIÓN CE DE CONFORMIDAD</u> <u>DICHIARAZIONE CE DI CONFORMITÀ</u> <u>DECLARAÇÃO CE DE CONFORMIDADE</u> <u>EG-VERKLARING VAN OVEREENSTEMMING</u> <u>EG-FÖRSÄKRAN OM ÖVERENSSTÄMMELSE</u> <u>EY-VAATIMUKSEN MUKAISUUSVAKUUTUS</u> <u>DEKLARACJA ZGODNOŚCI CE</u> <u>CE PROHLÁŠENÍ O SHODĚ</u> <u>ДЕКЛАРАЦИЯ СООТВЕТСТВИЯ CE</u>
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II 2G IIB T3

Dominique LAGOUGE

Directeur Général / Chief Executive Officer / Generaldirektor
 / Director General / Direttore Generale / Director Geral / Algemeen
 Directeur / Generaldirektör / Pääjohtaja / Dyrektor Naczelny
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VALABLE A PARTIR DU 20 AVRIL 2016
VALID FROM 20 APRIL 2016
GÜLTIG AB DEM 20. APRIL 2016
VALIDEZ A PARTIR DEL 20 DE ABRIL DE 2016
VALIDO A PARTIRE DAL 20 APRILE 2016
APLICÁVEL A PARTIR DE 20 DE ABRIL DE 2016
GELDIG VANAF 20 APRIL 2016.
GÄLLER FRÅN OCH MED DEN 20 APRIL 2016
VOIMASSA 20.4.2016 ALKAEN
WAŻNOŚĆ OD 20 KWIETNIA 2016 R.
PLATÍ OD 20. DUBNA 2016
ДЕЙСТВИТЕЛЬНО С 20 АПРЕЛЯ 2016 ГОДА



DECLARATION UE DE CONFORMITE
UE DECLARATION OF CONFORMITY
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DECLARACIÓN UE DE CONFORMIDAD
DICHIAZIONE DI CONFORMITÀ UE
DECLARAÇÃO UE DE CONFORMIDADE
EU-CONFORMITEITSVERKLARING
EU-FÖRSÄKRAN OM ÖVERENSSTÄMMELSE
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DEKLARACJA ZGODNOŚCI UE
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Est conforme à la législation d'harmonisation de l'Union applicable suivante / Is in conformity with the relevant Union harmonisation legislation / Erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union / es conforme con la legislación de armonización pertinente de la Unión / è conforme alla pertinente normativa di armonizzazione dell'Unione / in overeenstemming met de desbetteffende harmonisatiewetgeving van de Unie / med den relevanta harmoniserade unionslagstiftningen / on asiaa koskevan unionin yhdenmukaistamislainsäädännön vaatimusten mukainen / jest zgodny z odpowiednimi wymaganiami unijnego prawodawstwa harmonizacyjnego / Shoduje se s následující příslušnou evropskou harmonizační legislativou / Соответствует следующим стандартизированным нормам Союза

Directive ATEX / ATEX Directive / ATEX Richtlinie / Directiva ATEX / Direttiva ATEX / Diretiva ATEX / ATEX-Richtlijn / ATEX-direktivet / ATEX-direktivi / Dyrektywa ATEX / Směrnice ATEX / Директива ATEX II 2G IIA T3	2014/34/UE
Procédure d'évaluation de la conformité : Module A Documentation technique (Annexe VIII) archivée par : / Conformity assessment procedure: Module A Technical documentation (ANNEX VIII) recorded by: / Verfahren zur Konformitätsbewertung: Modul A Technische Unterlagen (ANLAGE VIII) archiviert durch: / Procedimiento de evaluación de la conformidad: Módulo A Documentación técnica (ANEXO VIII) archivada por: / Procedura di valutazione della conformità: Modulo A Documentazione tecnica (ALLEGATO VIII) archiviata a cura di: / Procedimento de avaliação da conformidade: Módulo A Documentação técnica (ANEXO VIII) arquivada por: / Conformiteitsbeoordelingsprocedure: Module A Technische documentatie (BIJLAGE VIII) gearhiveerd door: / Förfarande för bedömning av överensstämmelse: Modul A Teknisk dokumentation (BILAGA VIII) arkiverad av: / Vaatimustenmukaisuusarviointimenetelmä: moduuli A Tekninen dokumentaatio (LIITE VIII) arkistoitu: / Procedura oceny zgodności: Moduł A Dokumentacji technicznej (ZAŁĄCZNIK VIII) zarchiwizowane przez: / Postup posuzování shody: Modul A Technická dokumentace (PŘÍLOHA VIII) archivována: / Процедура оценки соответствия: Модуль A Техническая документация (ПРИЛОЖЕНИЕ VIII), архивированная: ISSeP Zoning A. Schweitzer Rue de la Platinerie B - 7340 COLFONTAINE BELGIQUE	

Dominique LAGOUGE

Directeur Général / Chief Executive Officer / Generaldirektor
 / Director General / Direttore Generale / Director Geral / Algemeen
 Directeur / Generaaldirektör / Pääjohtaja / Dyrektor Naczelny
 / Dyrektor Generalny / Generální ředitel / Генеральный директор

Fait à Stains, le / Established in Stains, on / Geschehen zu Stains, am / En Stains, a / Redatto a Stains, / Vastgesteld te Stains, / Utformat i Stains, den / Stains, Ranska, / Sporządzono w Stains, dnia / Stains, dnia / Издано в г. Стен (Stains) 06/04/2016 - 04/06/2016



**DEMONTAGE / REMONTAGE
DISASSEMBLY / REASSEMBLY
DEMONTAGE / MONTAGE
DESMONTAJE / MONTAJE**

**POMPE A BILLE / BALL PUMP
KUGELPUMPE / BOMBA CON BOLA
EOS 53-C360**

NOTICE ORIGINALE
/ TRANSLATION OF THE ORIGINAL MANUAL
/ ÜBERSETZUNG DER ORIGINAL BEDIENUNGSANLEITUNG
/ TRADUCCIÓN DEL LIBRO ORIGINAL

La pompe est soumise à la directive ATEX et ne doit en aucun cas être modifiée.
Le non-respect de cette préconisation ne saurait engager notre responsabilité.
/ The pump is manufactured under the ATEX agreement and can not be modified.
KREMLIN REXSON will not be held responsible for any failure to comply with that instruction.

/ Die Pumpe hat die ATEX Zulassung, deswegen darf die Maschine nie geändert werden. Die Nichtbeachtung dieser Präkonisation könnte unsere Verantwortung nicht übernehmen.

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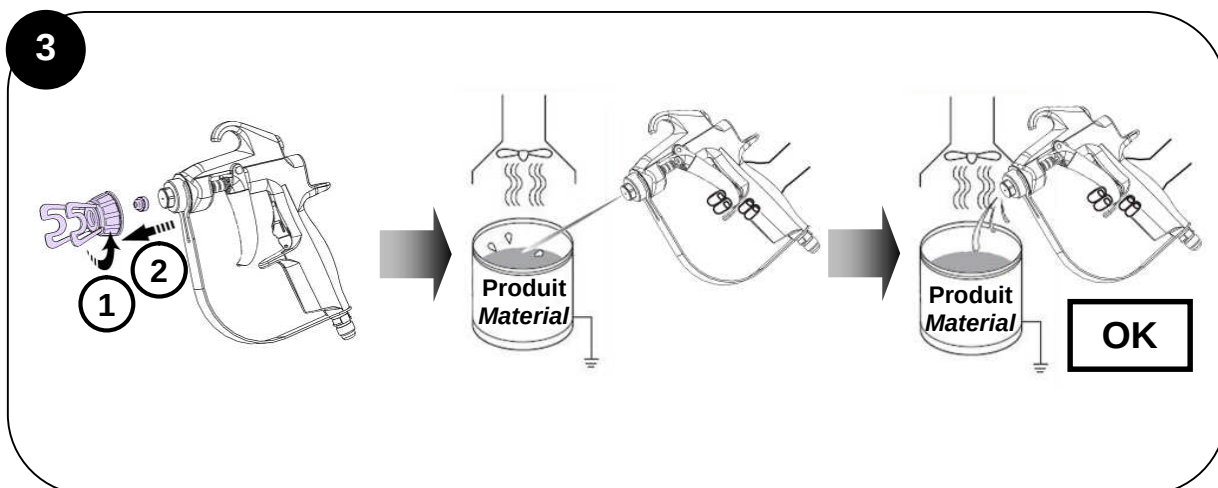
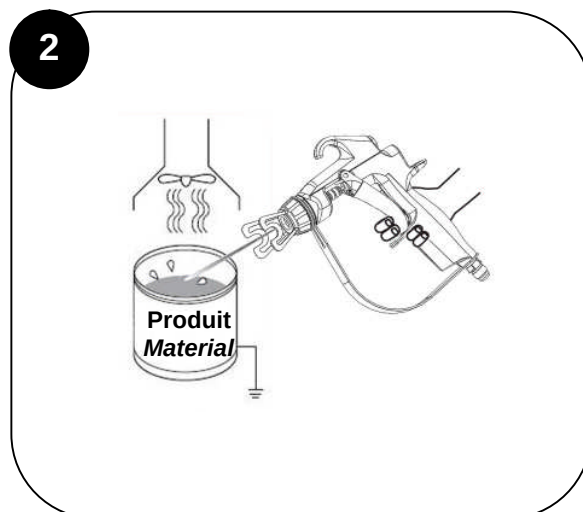
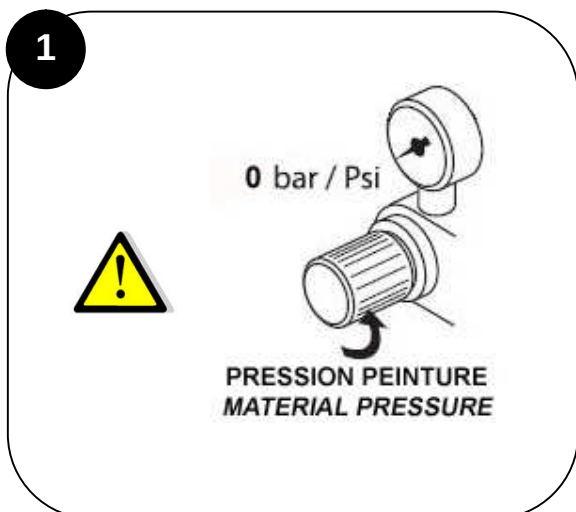
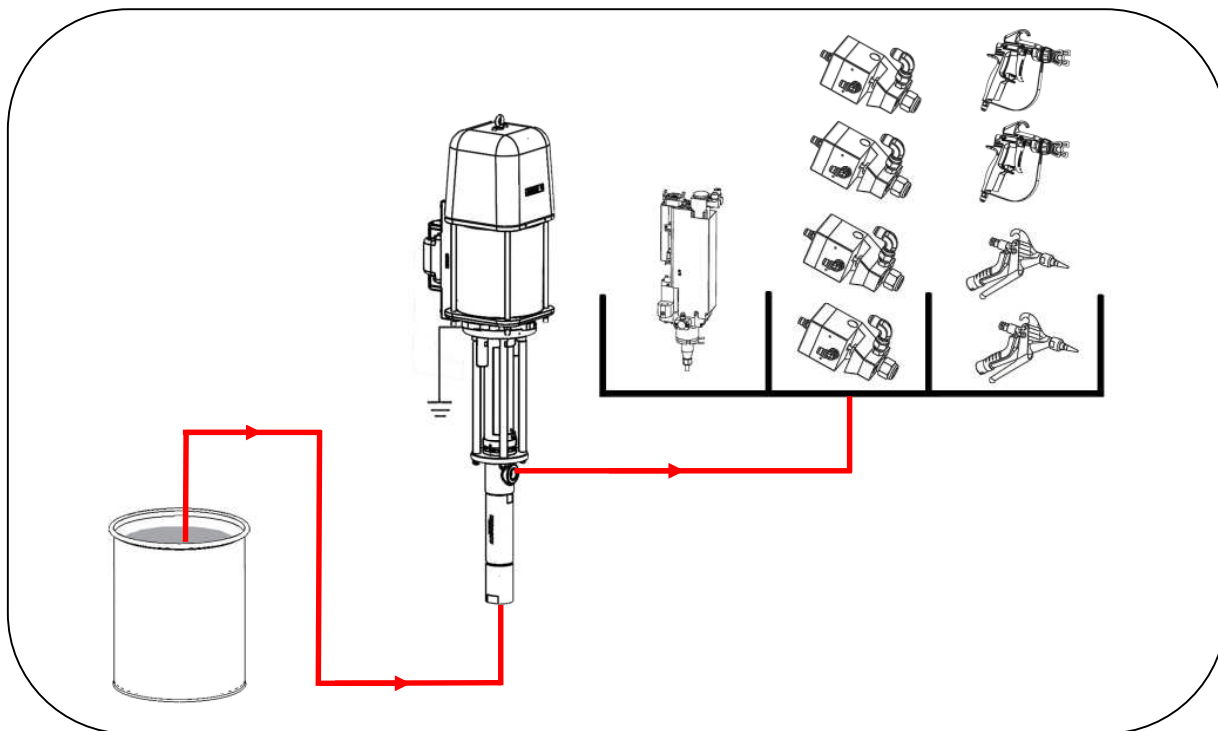
/ Guards (air motor cover, coupling shields, housings ...) have been designed for safe use of the equipment. The manufacturer will not be held responsible for bodily injury or failure and / or damage to property due to removal or partial removal of the guards.

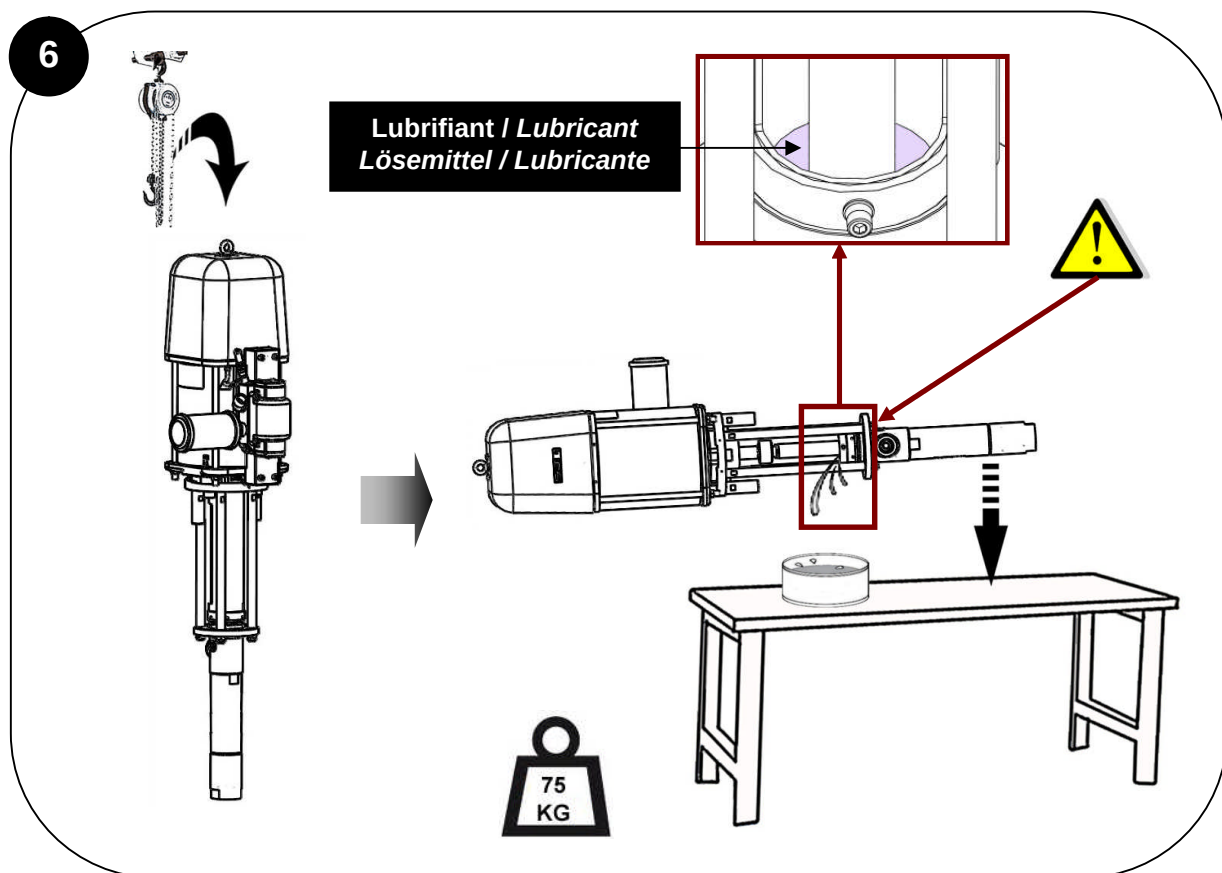
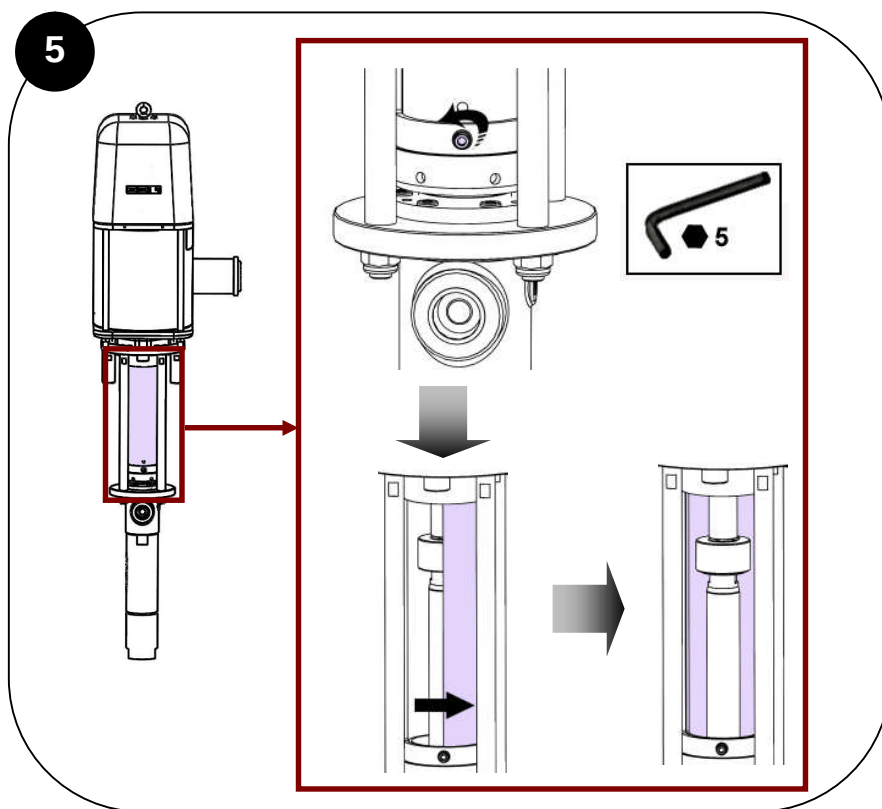
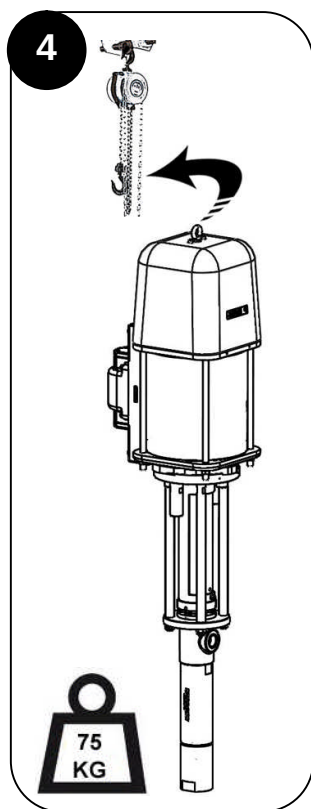
/ Schutzvorrichtungen an diesem Gerät wie (Motorhaube, Kupplungsschutz, Gehäuse, ggf. Erdungskabel, sowie weitere Vorrichtungen) wurden für eine sichere Benutzung dieses Gerätes entwickelt und angebracht. Der Hersteller lehnt jede Verantwortung für Körperschäden, Fehlfunktionen, Beschädigung der Geräte, und jegliche andere Fehler ab, die durch die ganze oder teilweise Entfernung Modifikation oder unsachgemäße Handhabung der Schutzvorrichtungen oder anderen Geräteteilen entstehen.

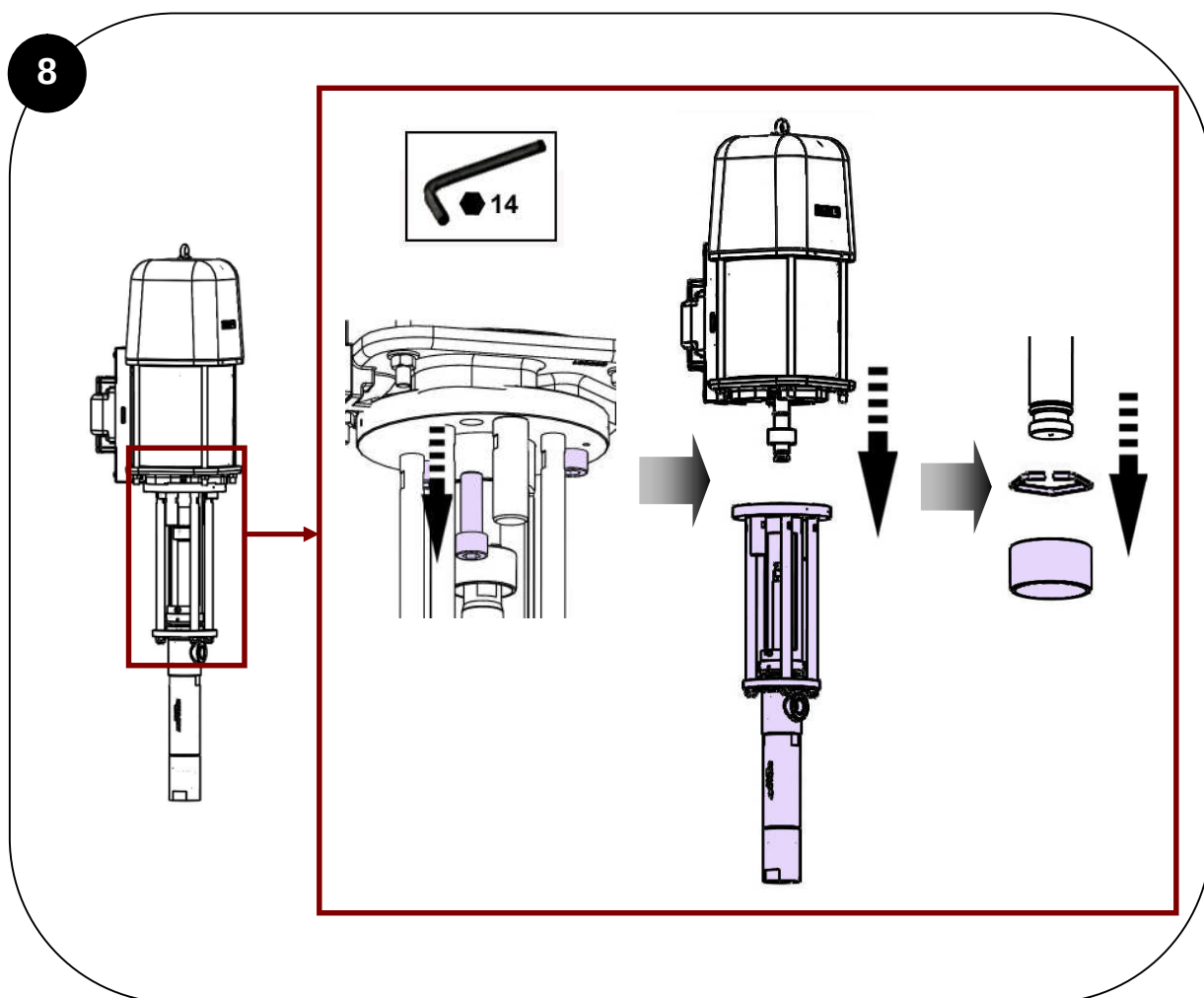
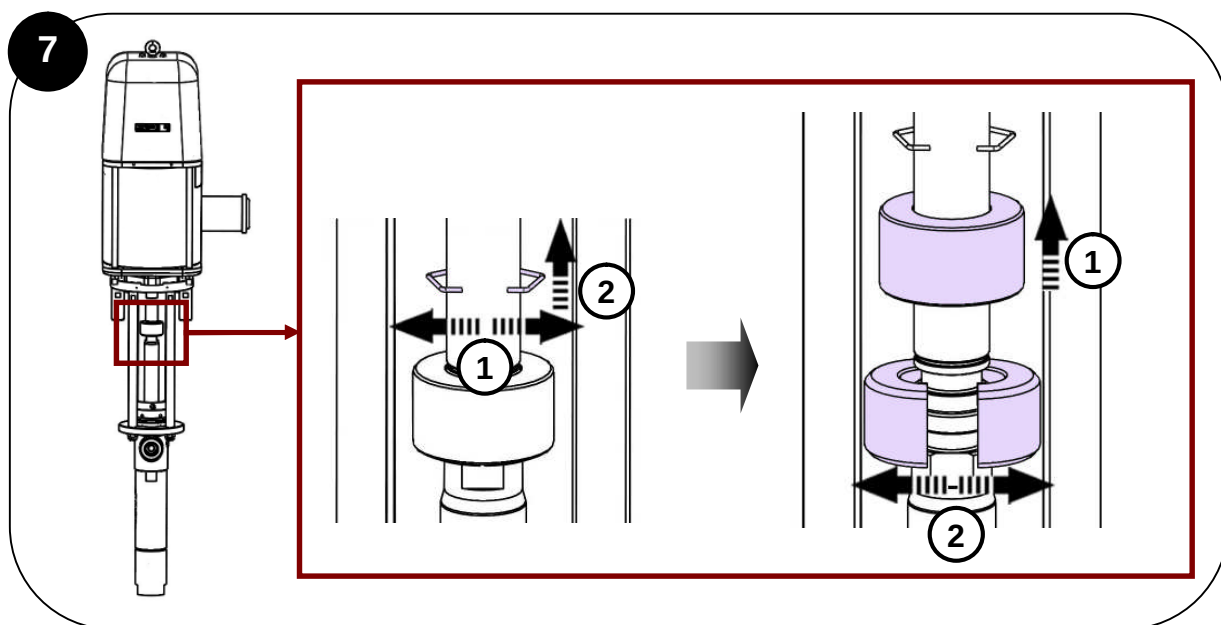
/ Protectores (capó motor, protector de acoplamiento, cárteres,...) se colocan para una utilización segura del material. El fabricante no se hace responsable, en caso de daños personales, así como de las averías y / o daños del material, resultantes de la destrucción, la ocultación o la retirada total o parcial de los protectores.

Vous aurez besoin de / you need / Werkzeugaufstellung / Vd necesita :

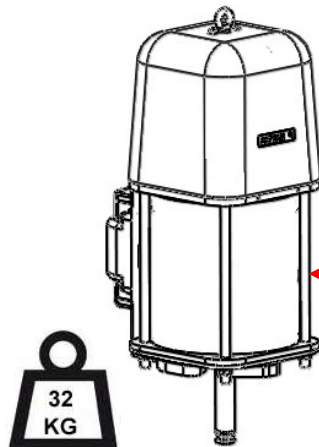






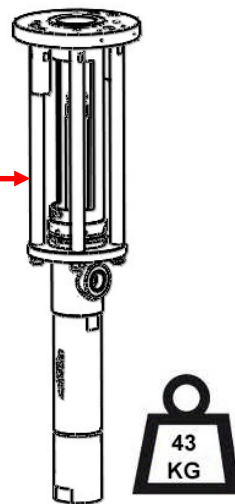


9



**Voir / Refer to
Siehe / Consultar
doc. / Dok.
578.178.110**

**Voir / Refer to
Siehe / Consultar
doc. / Dok.
578.175.110**



Des protecteurs (capot moteur, protecteur d'accouplement, carter,...) sont mis en place pour une utilisation sûre du matériel.

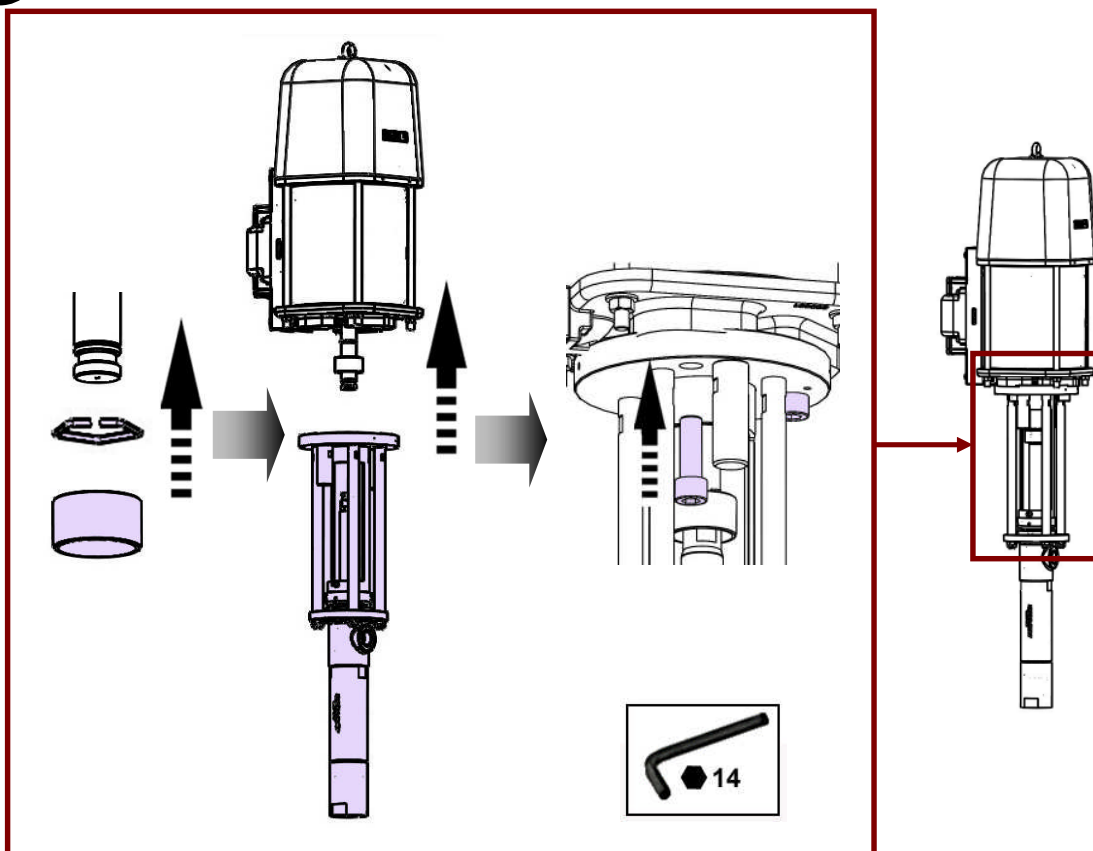
Le fabricant ne peut être tenu pour responsable en cas de dommages corporels ainsi que des pannes et / ou endommagement du matériel résultant de la destruction, de l'occultation ou du retrait total ou partiel des protecteurs.

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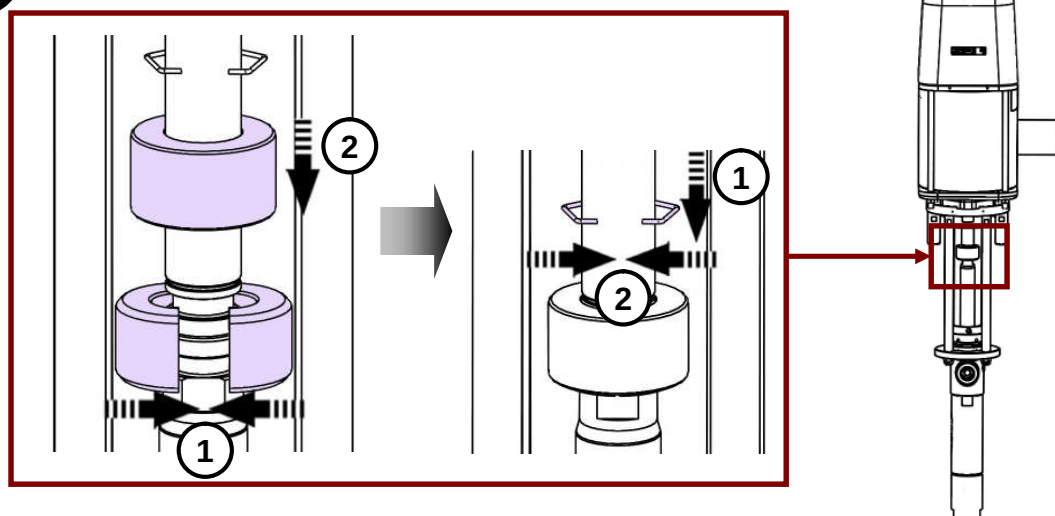
/ Schutzvorrichtungen an diesem Gerät wie (Motorhaube, Kupplungsschutz, Gehäuse, ggf. Erdungskabel, sowie weitere Vorrichtungen) wurden für eine sichere Benutzung dieses Gerätes entwickelt und angebracht. Der Hersteller lehnt jede Verantwortung für Körperschäden, Fehlfunktionen, Beschädigung der Geräte, und jegliche andere Fehler ab, die durch die ganze oder teilweise Entfernung Modifikation oder unsachgemäße Handhabung der Schutzvorrichtungen oder anderen Geräteteilen entstehen.

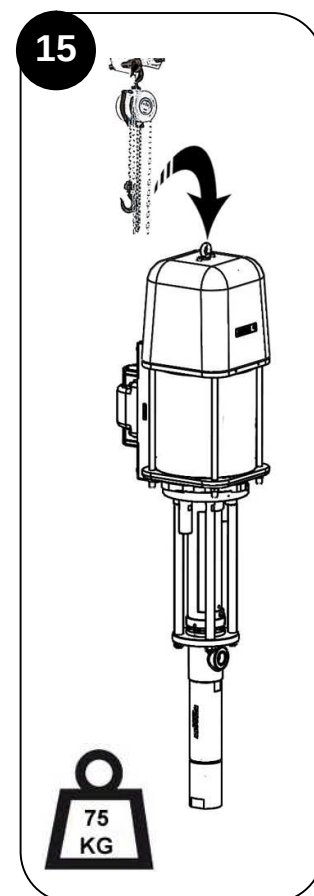
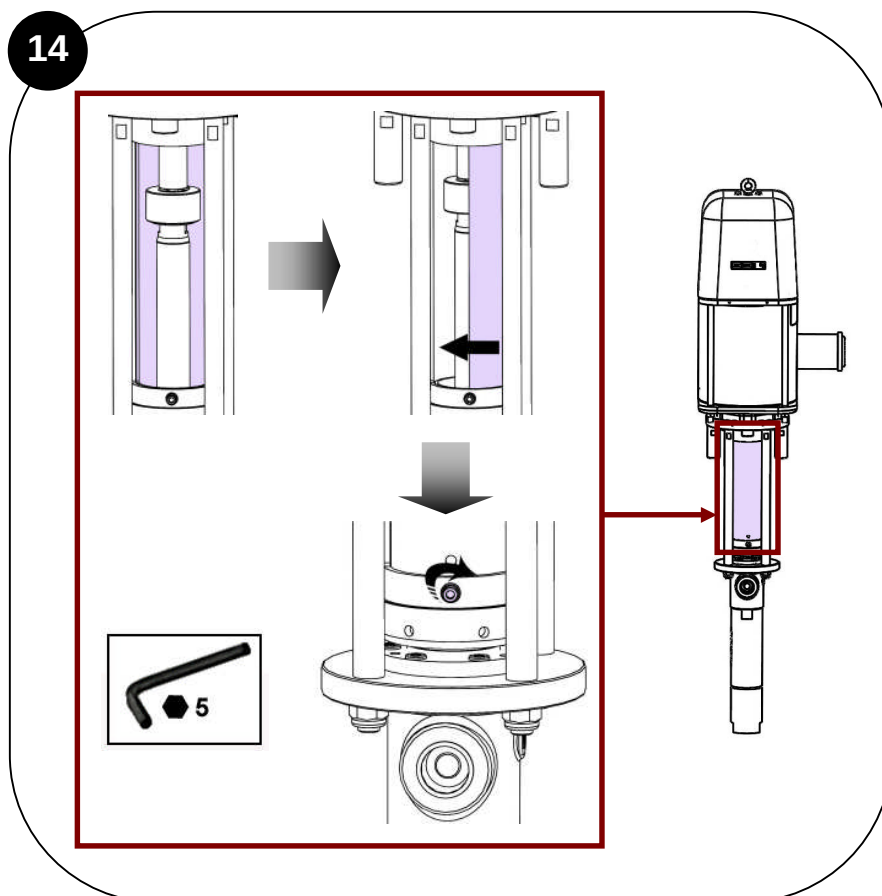
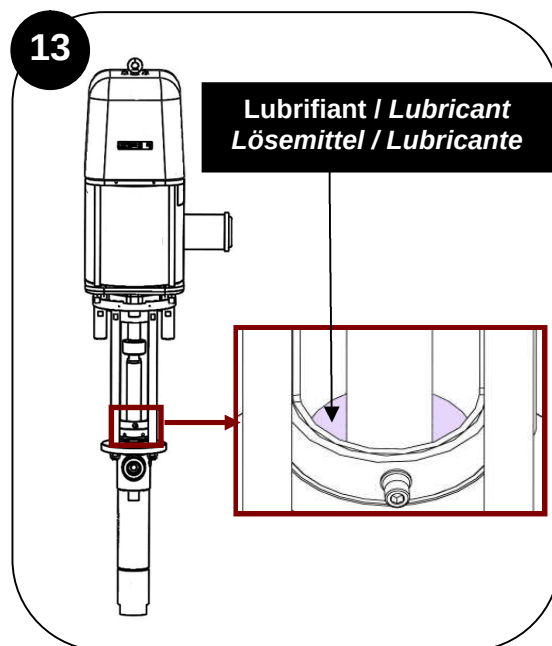
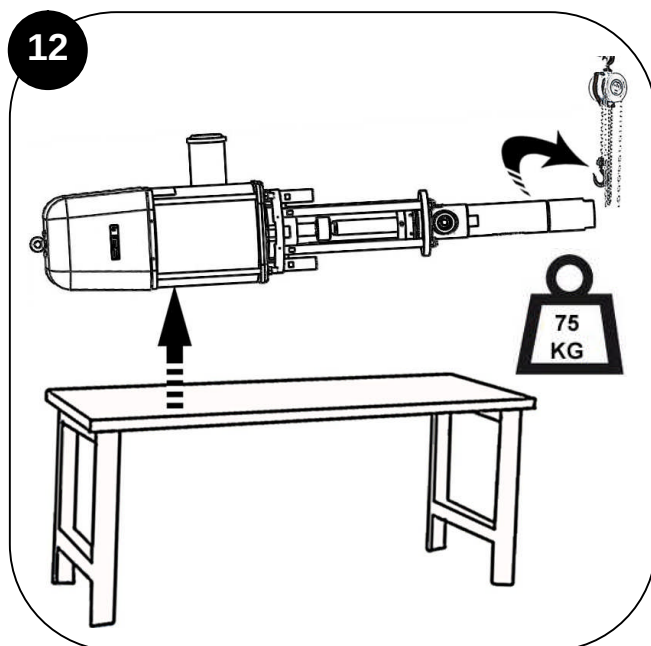
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10



11







**DEMONTAGE / REMONTAGE
DISASSEMBLY / REASSEMBLY
DEMONTAGE / MONTAGE
DESMONTAGE / MONTAGE**

**MOTEUR A AIR / AIR MOTOR
LUFTMOTOR / MOTOR DE AIRE
7200 - 9200**

**NOTICE ORIGINALE
/ TRANSLATION FROM THE ORIGINAL MANUAL
/ ÜBERSETZUNG DER ORIGINAL BETRIEBSANLEITUNG
/ TRADUCCIÓN DEL LIBRO ORIGINAL**

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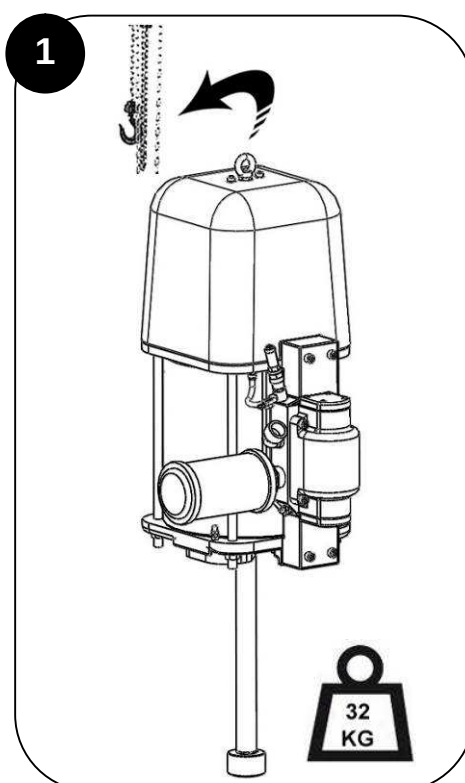
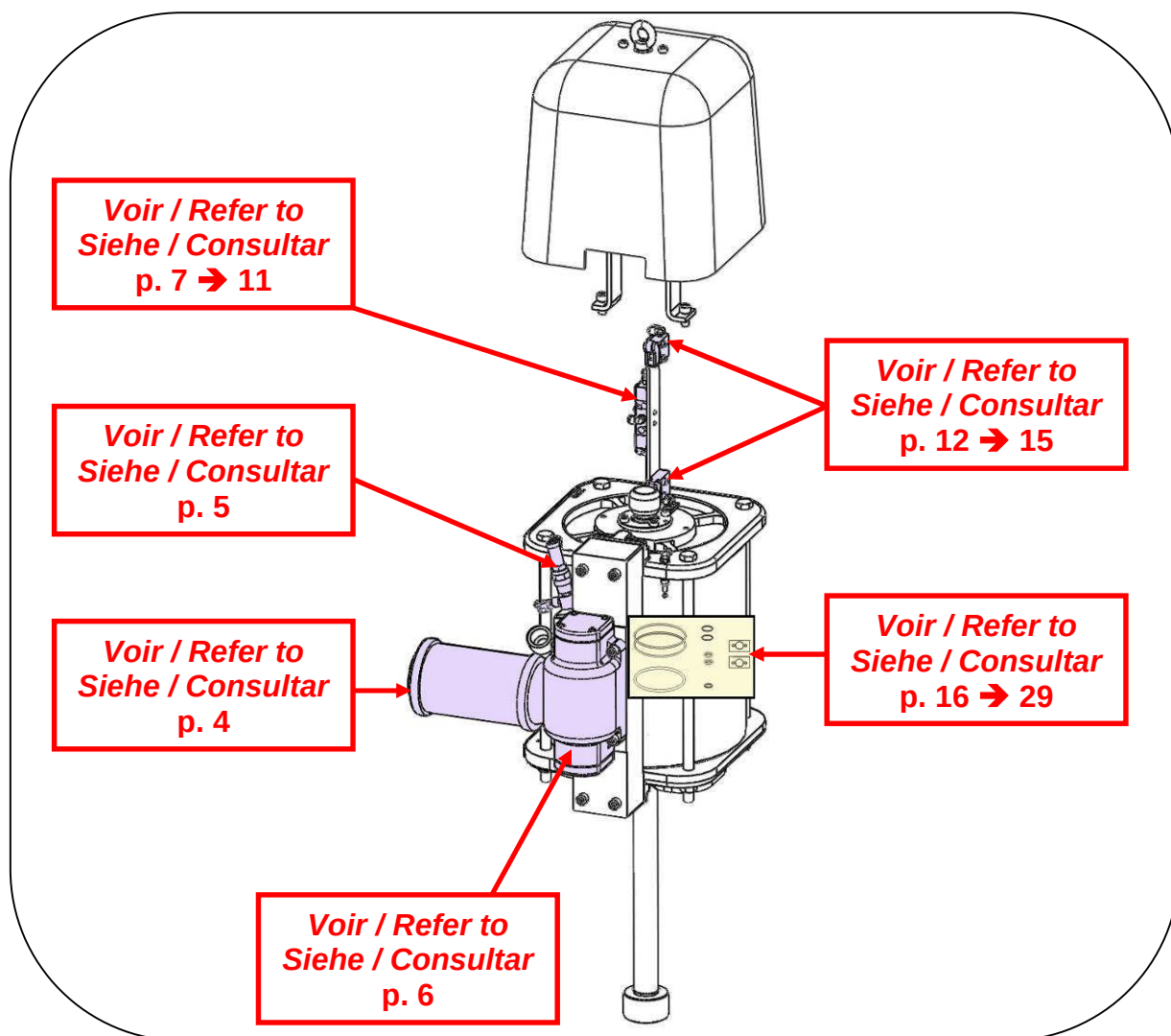
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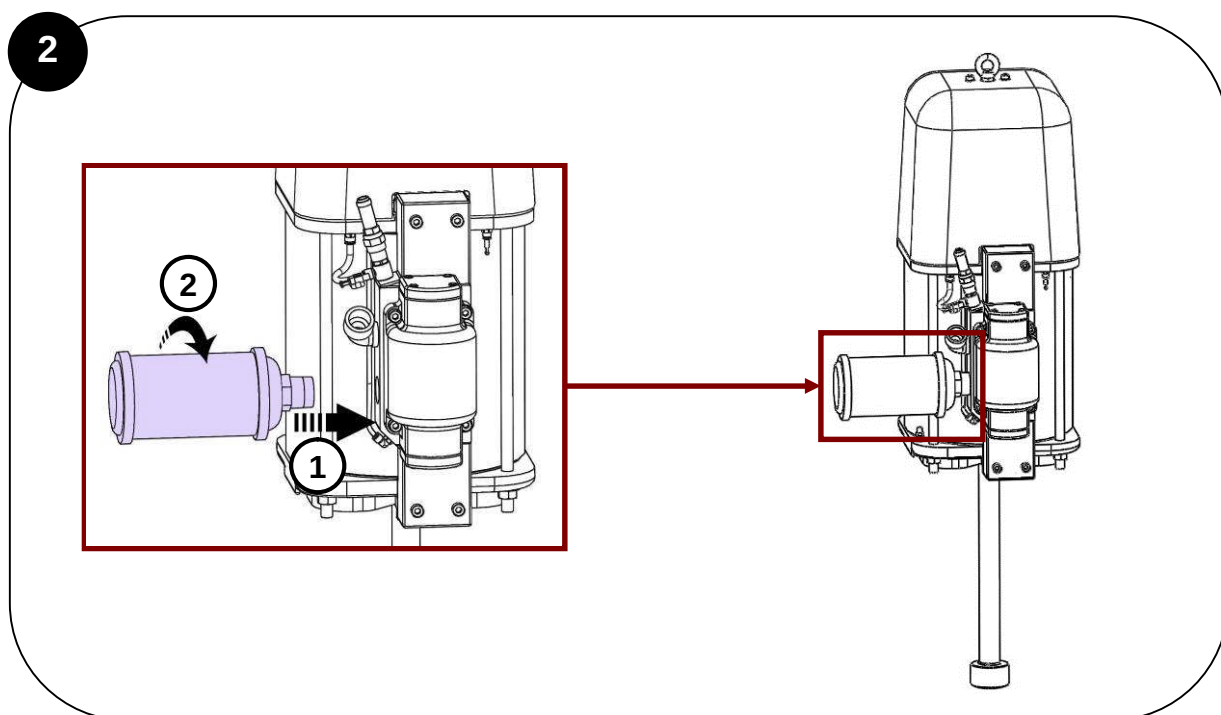
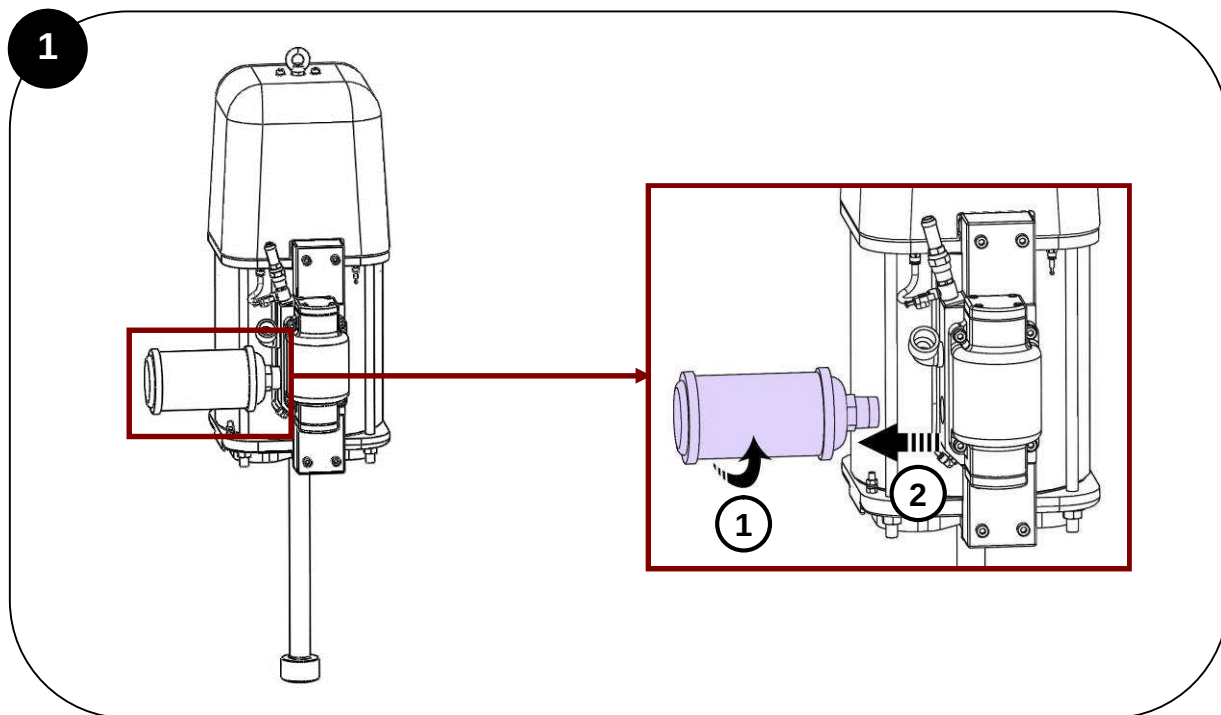
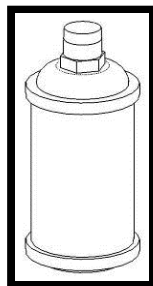
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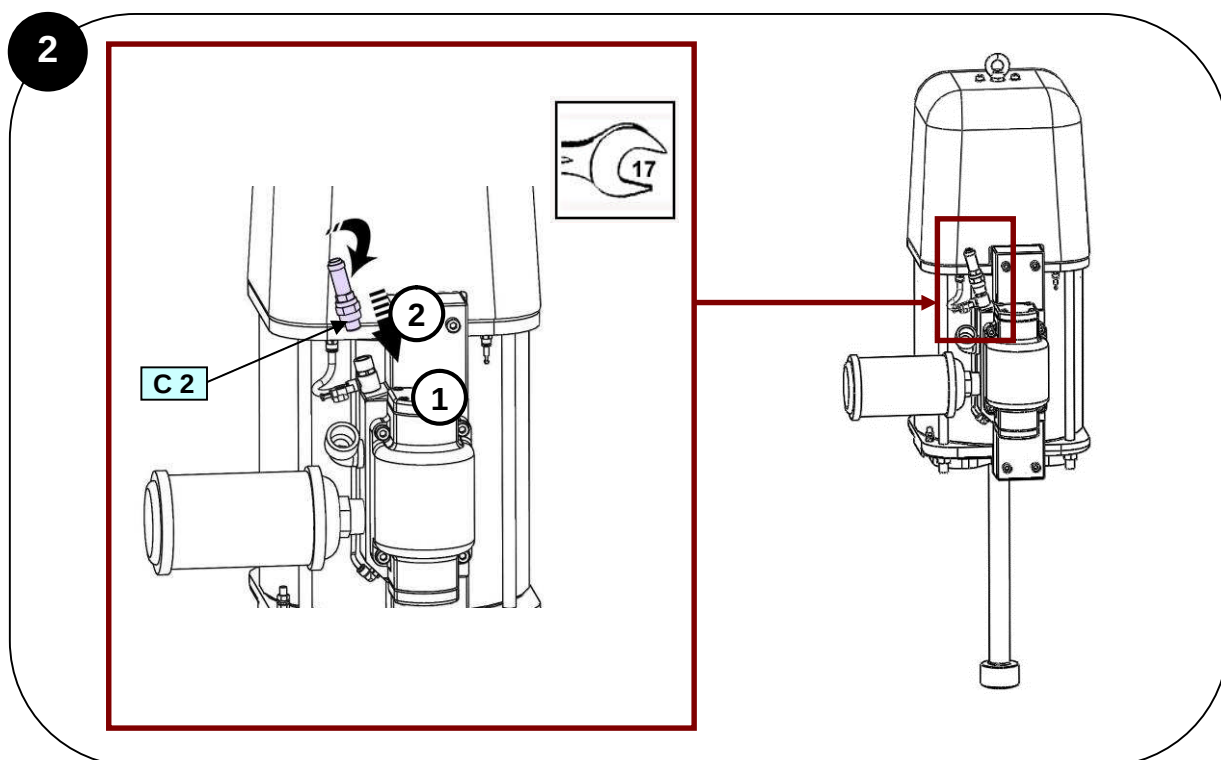
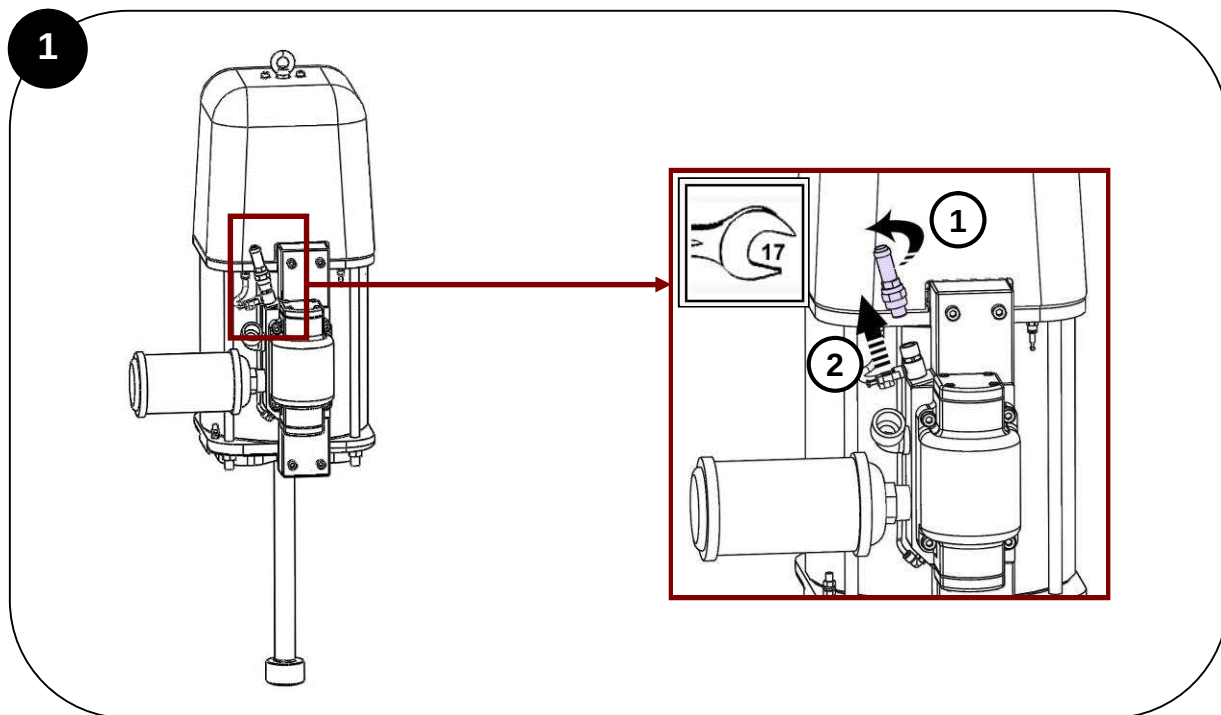
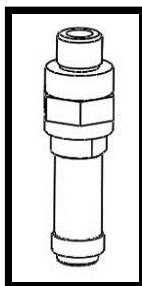
***Vous aurez besoin de / you need
Werkzeugaufstellung / Vd necesita:***

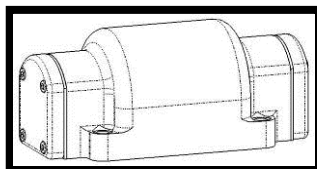


Repère / Index / Pos. / Índice	Instructions / Montage-Hinweis / Instrucciones	Désignation / Description / Bezeichnung / Descripción	Référence / Part number / Artikel-Nr. / Referencia
A 5	Graisse haute performance	Boîte de graisse Kluber petamo GHY 133N (1 kg)	560.440.005
	High-performance lubricating grease	Grease box Kluber petamo GHY 133N (1 kg / 2.204 lb)	
	Hochleistungsfett	Dose mit Fett Kluber petamo GHY 133N (1 kg)	
	Grasa de alto rendimiento	Caja de grasa Kluber petamo GHY 133N (1 kg)	
C 2	Colle Anaérobie Tube étanche	Loctite 577 (50 ml)	554.180.015
	Medium strength Aneorobic Pipe sealant	Loctite 577 (250 ml / 0.066 US gal)	
	Mittelfester anaerober Kleber	Loctite 577 (250 ml)	
	Cola PTFE (para la estanqueidad)	Loctite 577 (250 ml)	
C 3	Colle Anaérobie frein filet fort	Loctite 270 (250 ml)	554.180.004
	High strength - Aneorobic Adhesive	Loctite 270 (50 ml / 0.013 US gal)	
	Hochfester anaerober Kleber	Loctite 270 (50 ml)	
	Cola freno alta	Loctite 270 (50 ml)	

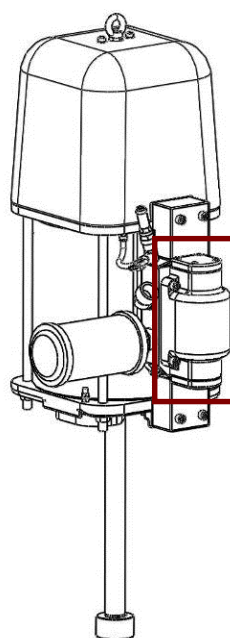




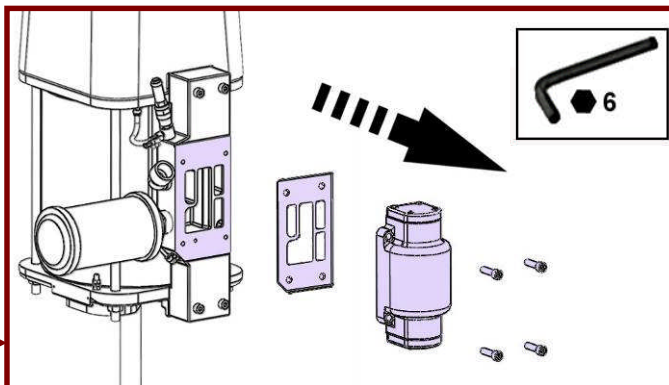




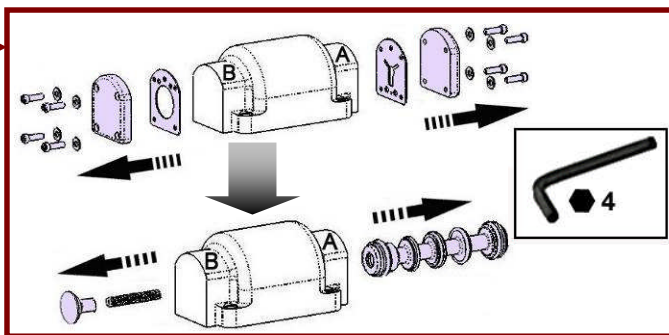
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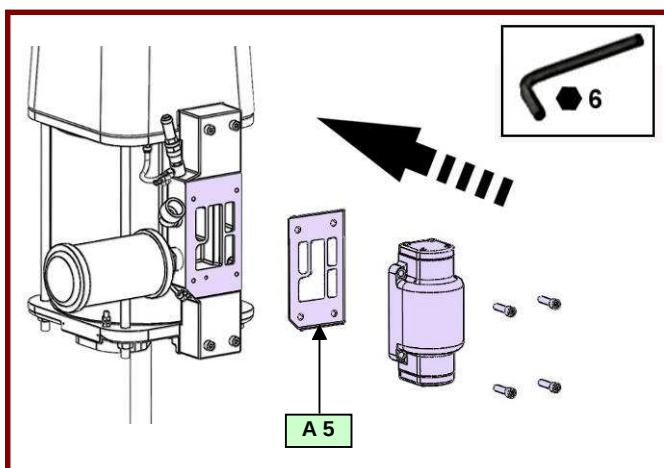
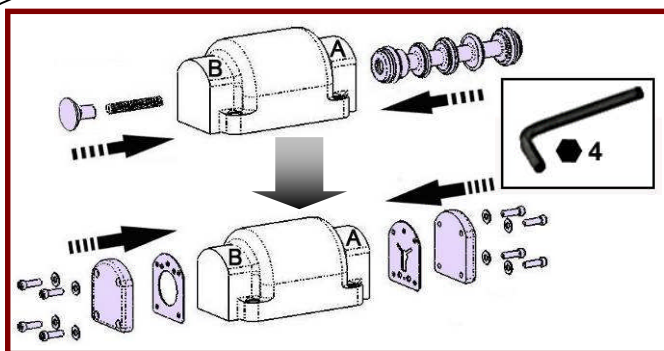
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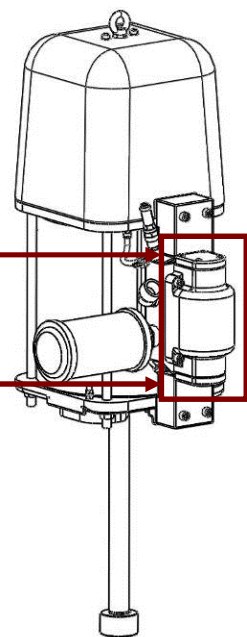


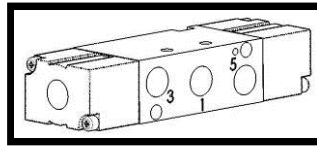
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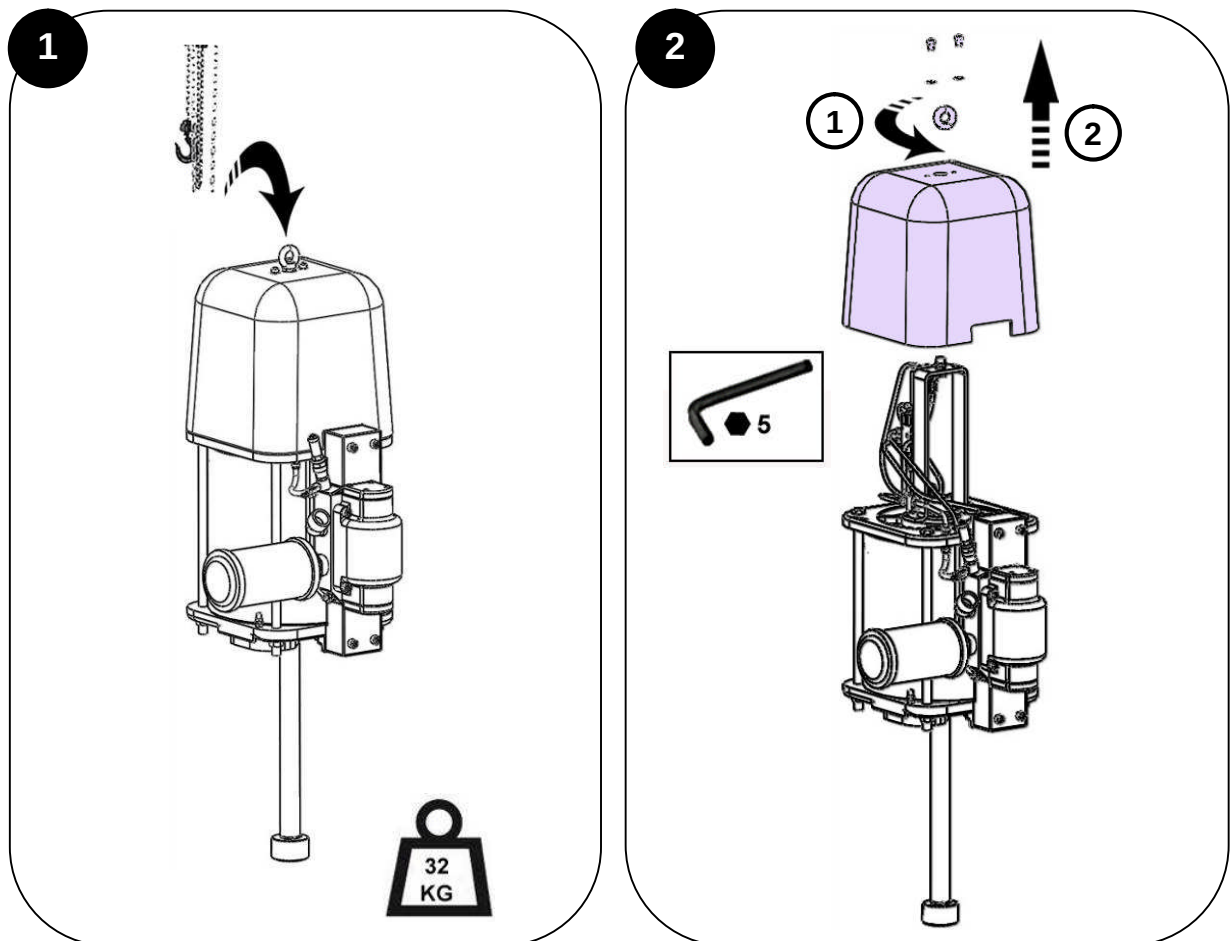
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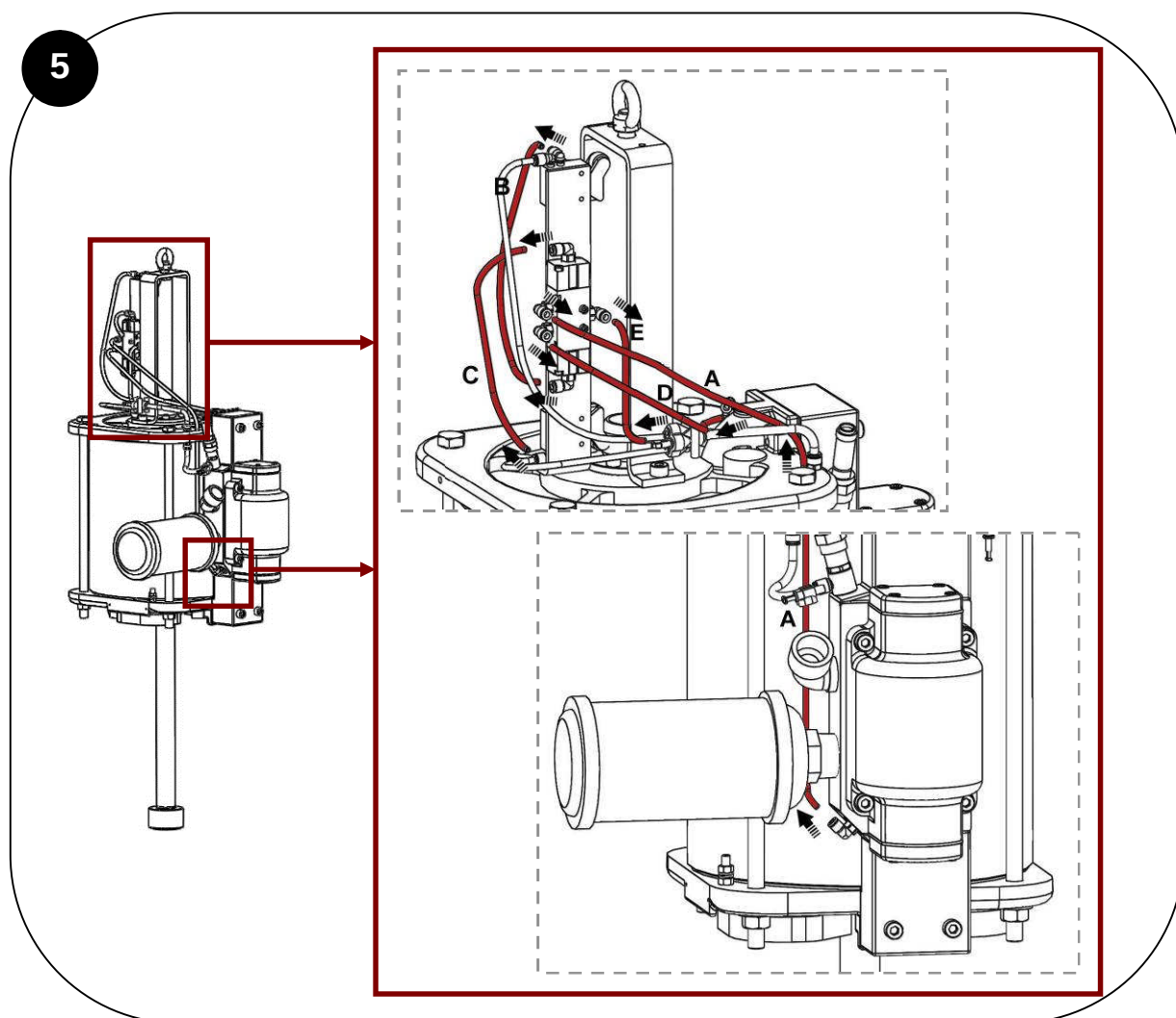
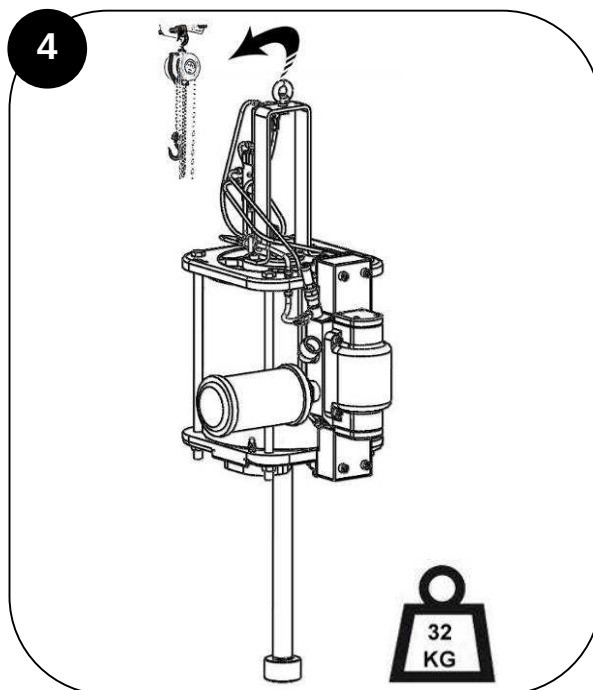
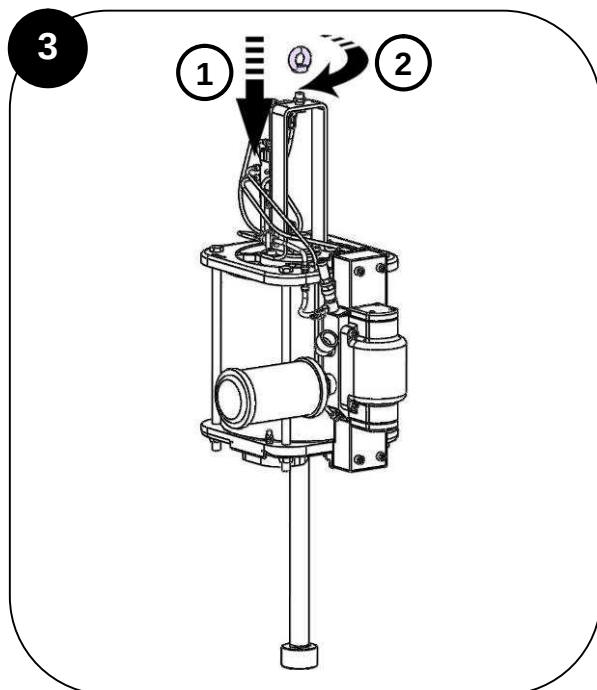
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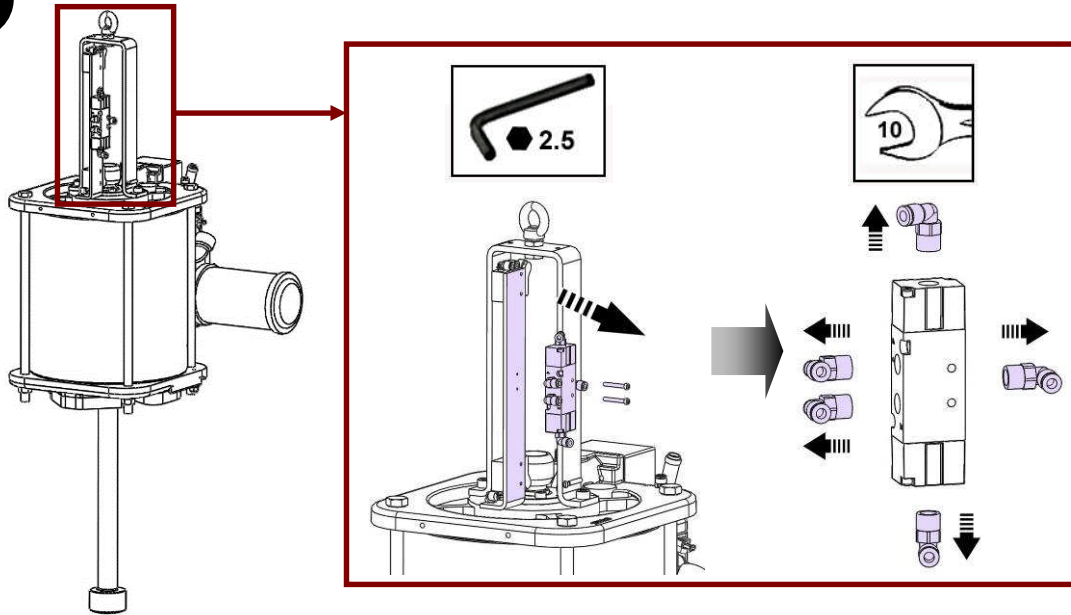
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6



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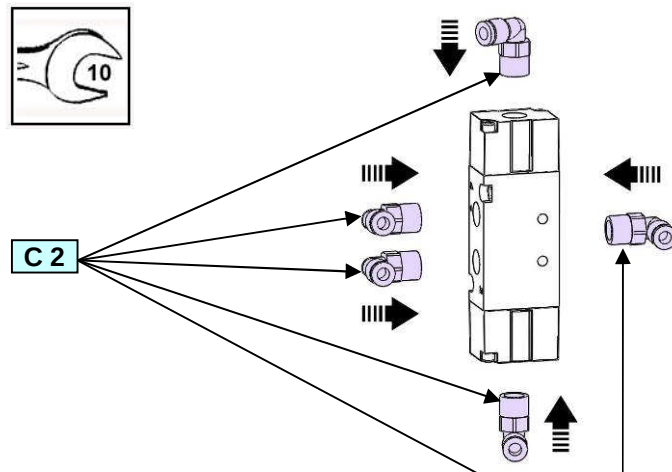
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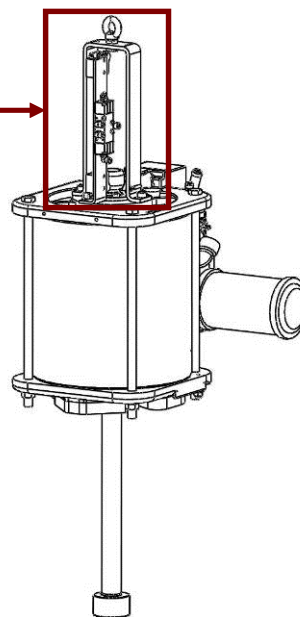
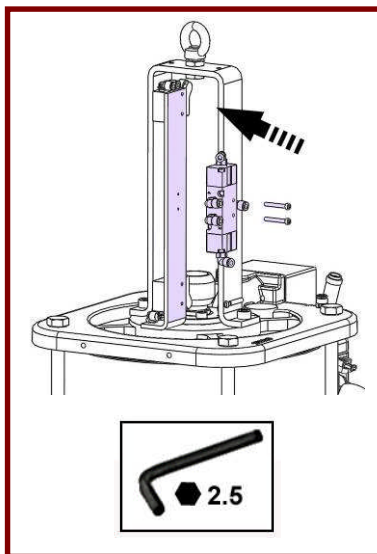
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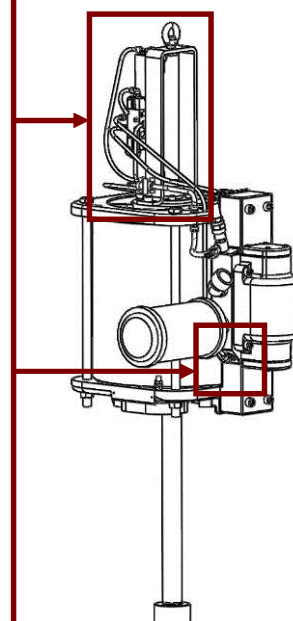
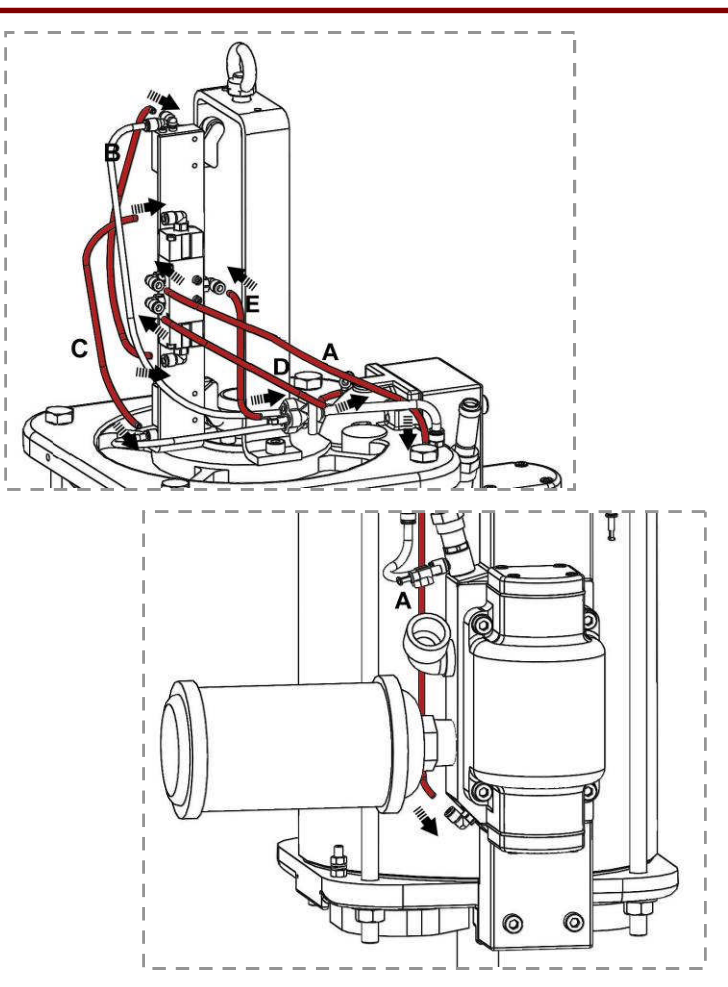
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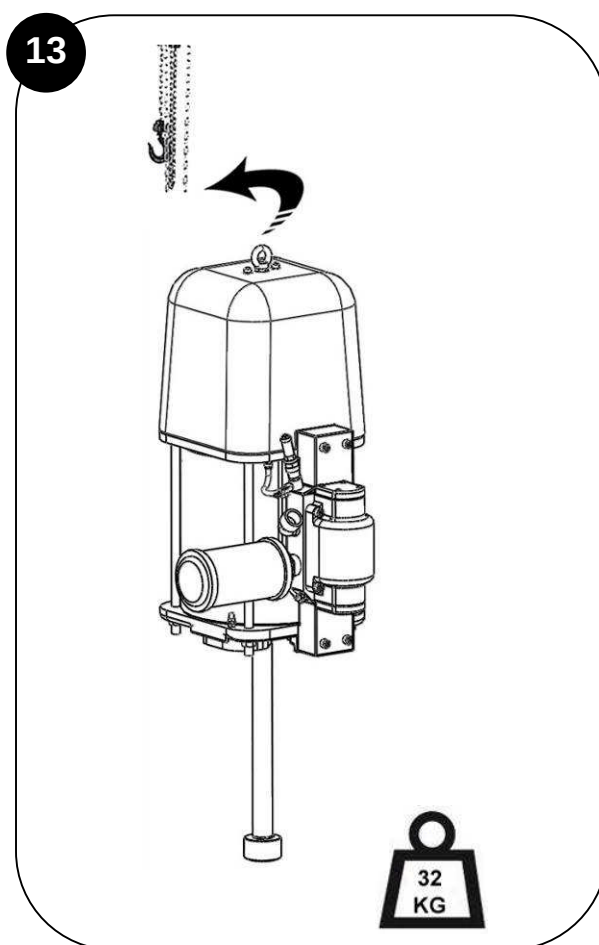
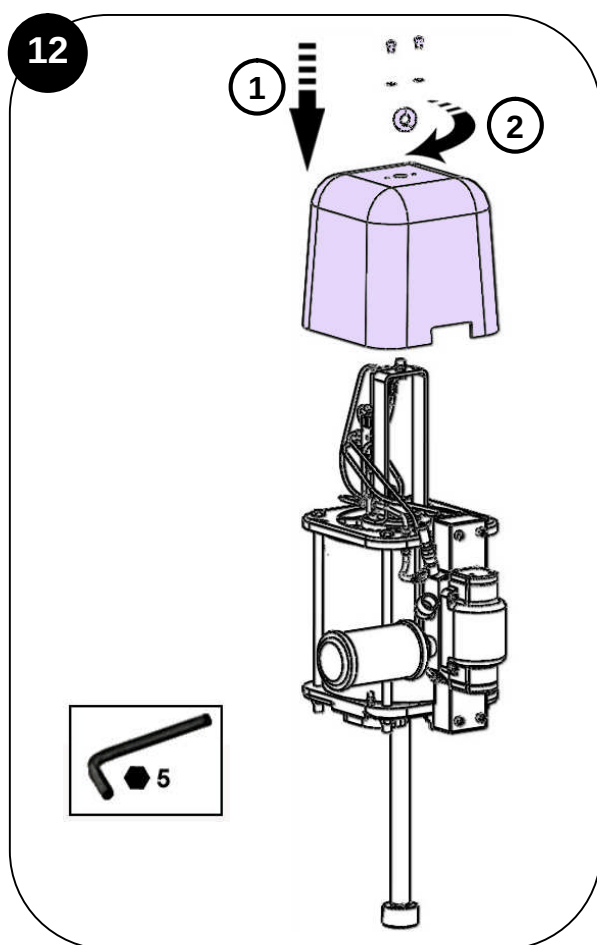
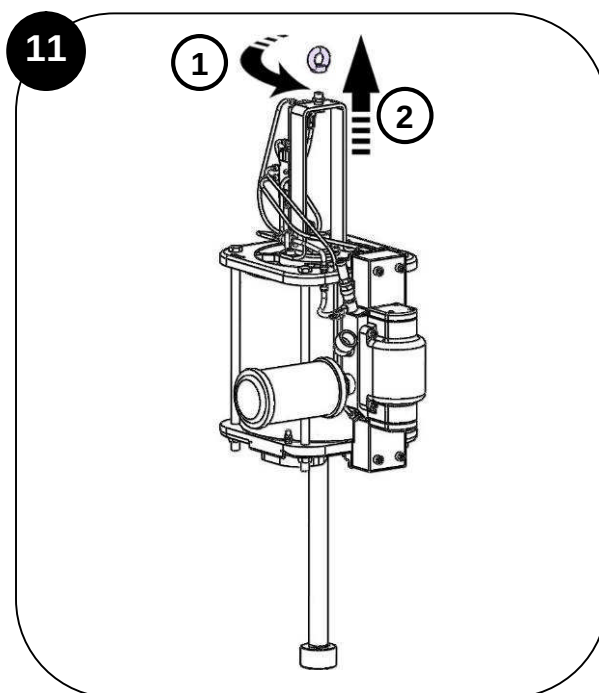
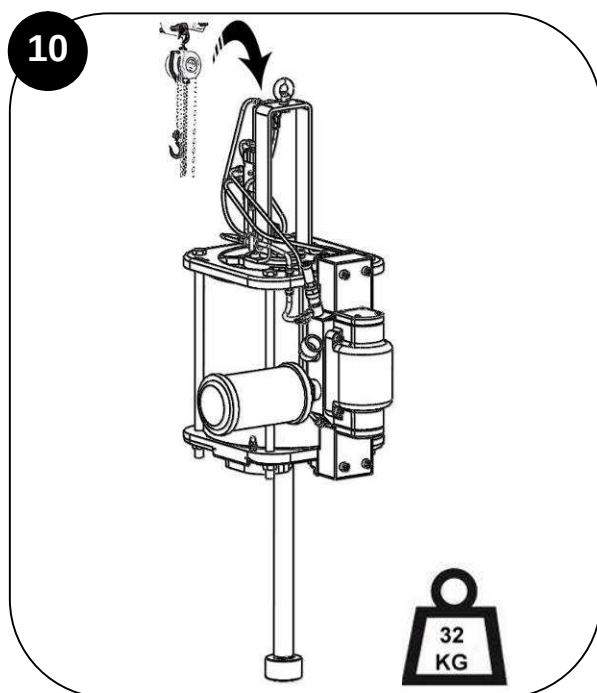


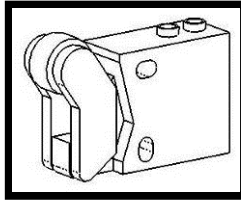
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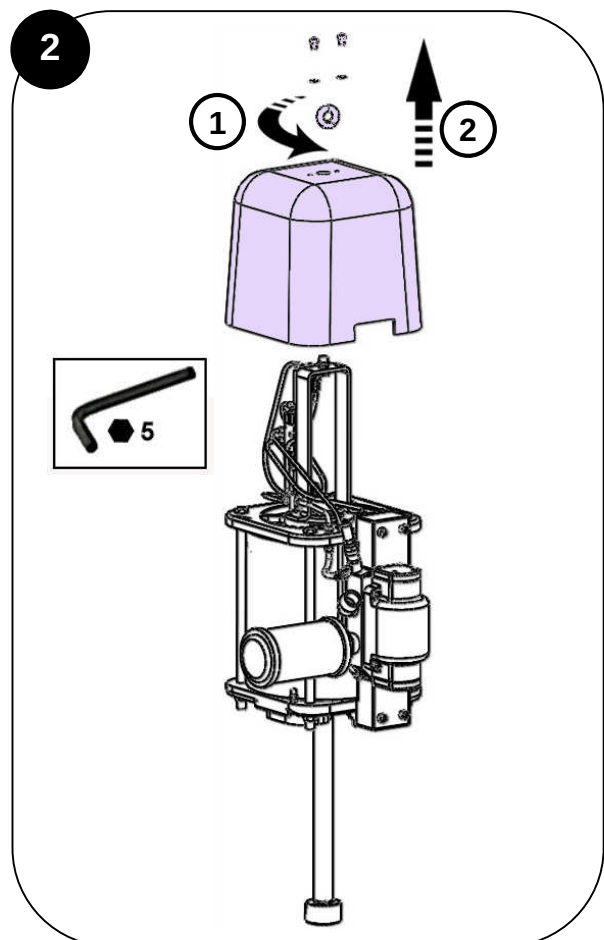
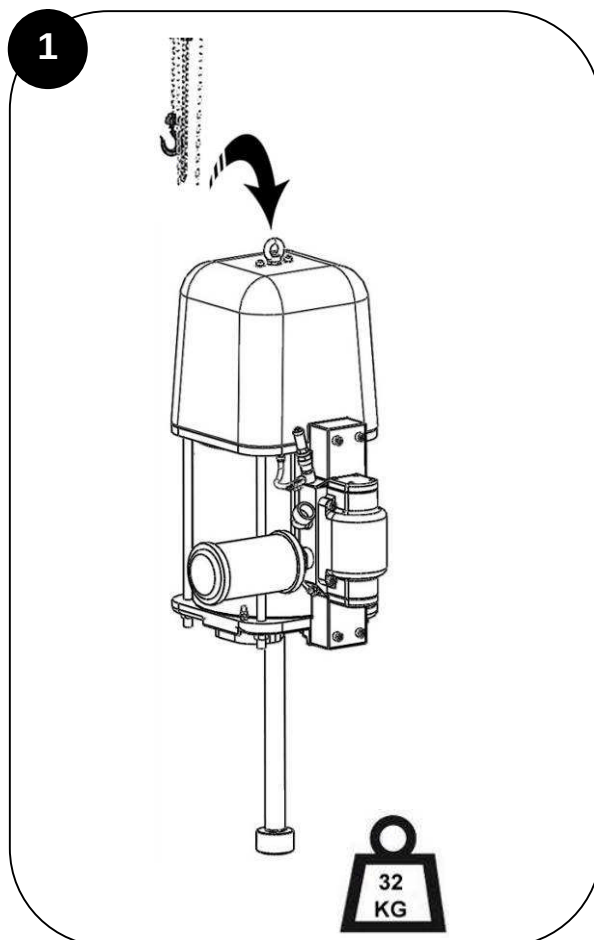
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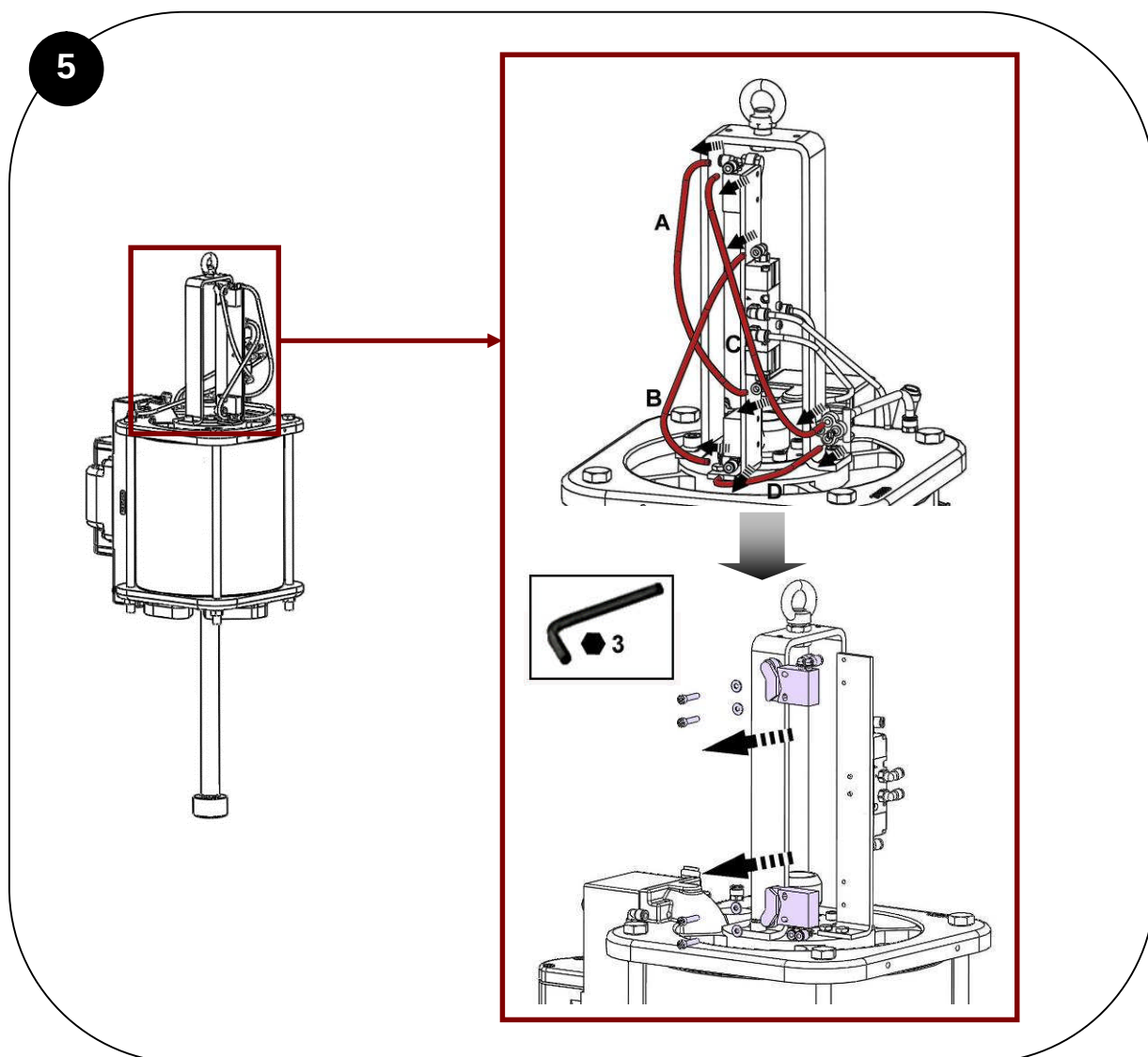
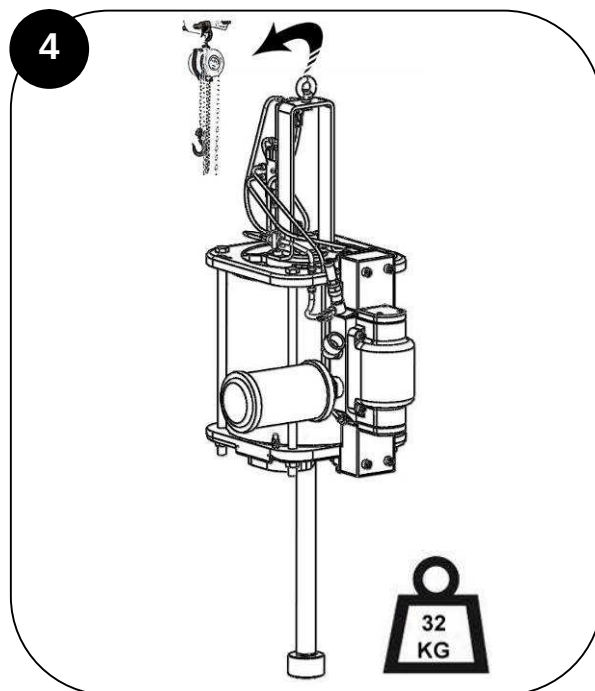
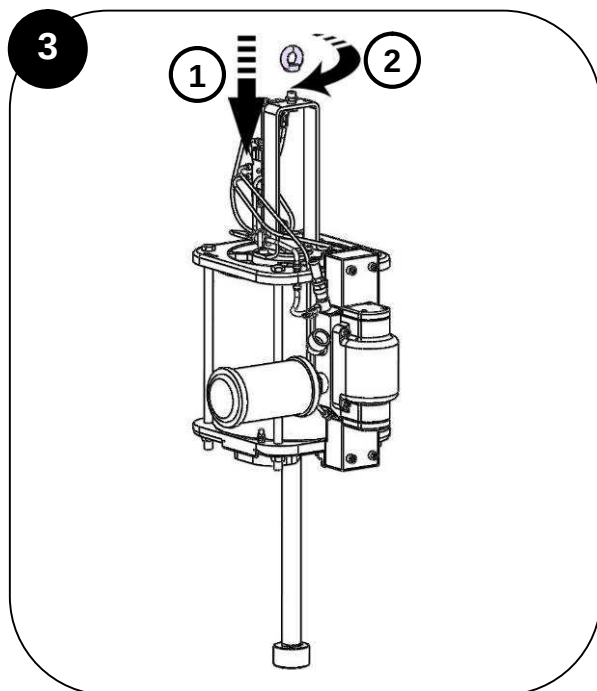
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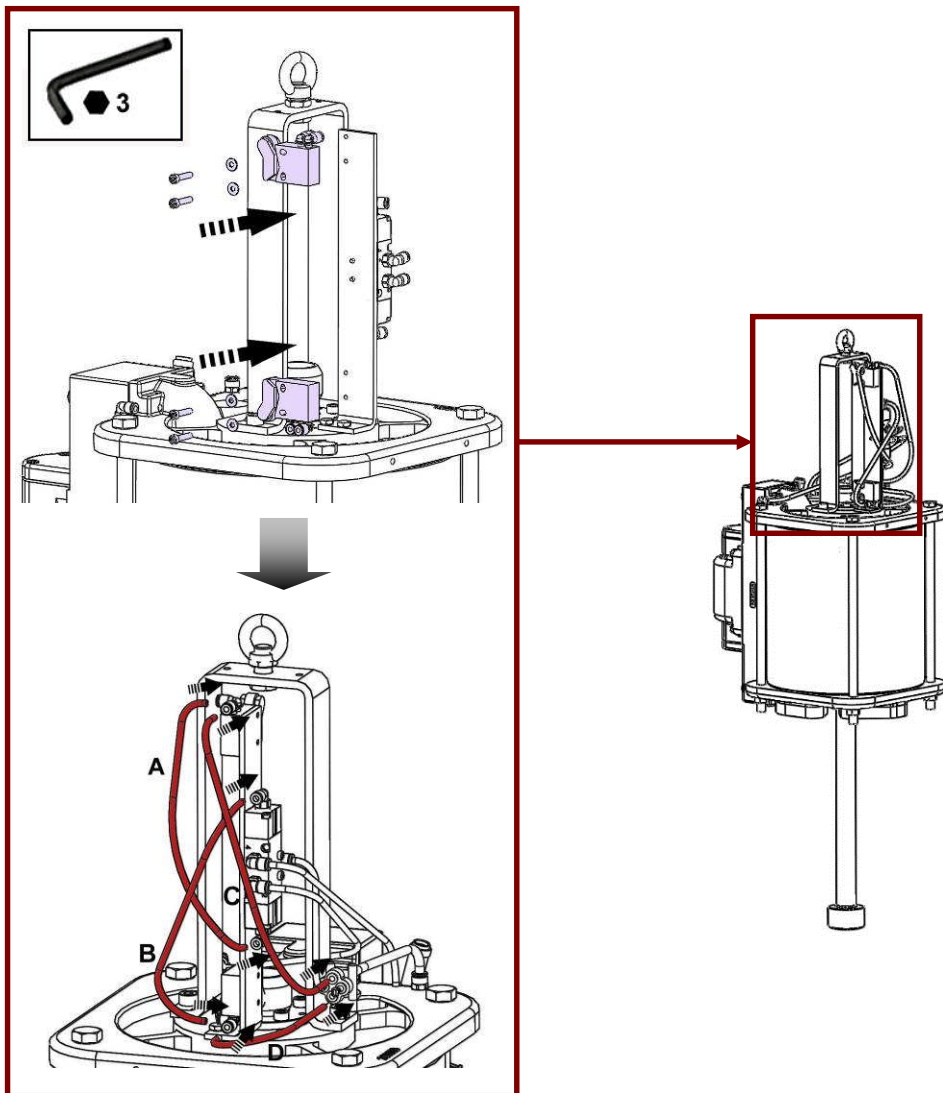
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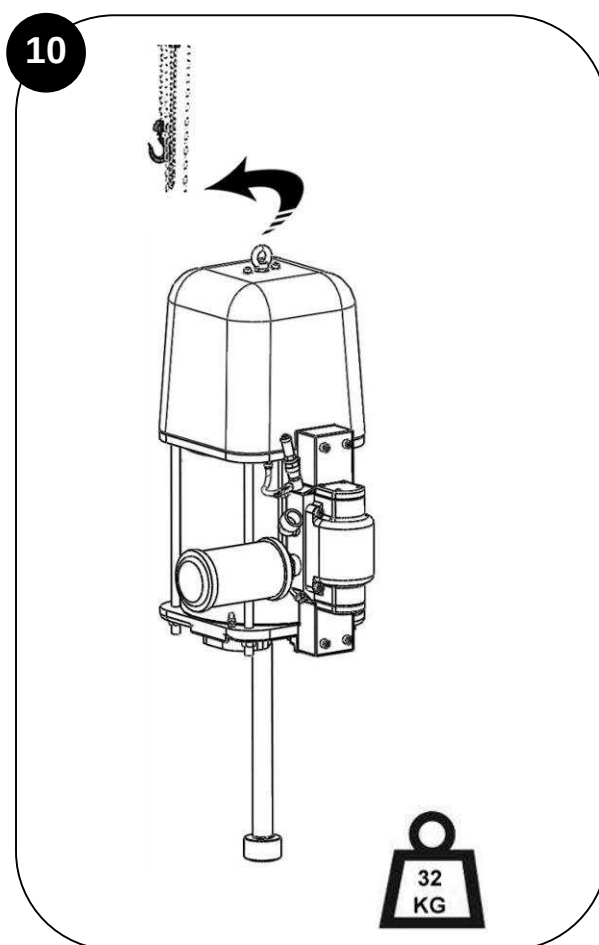
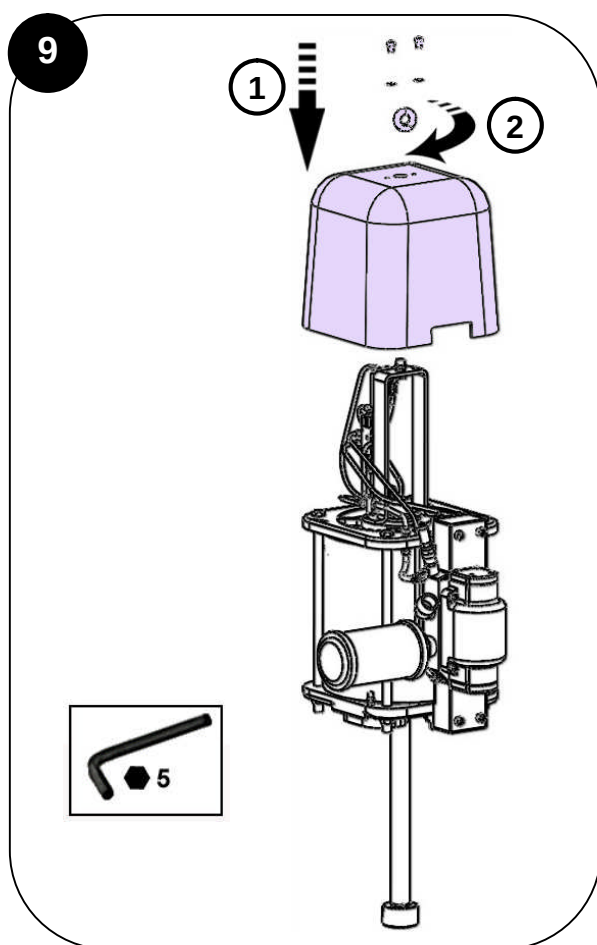
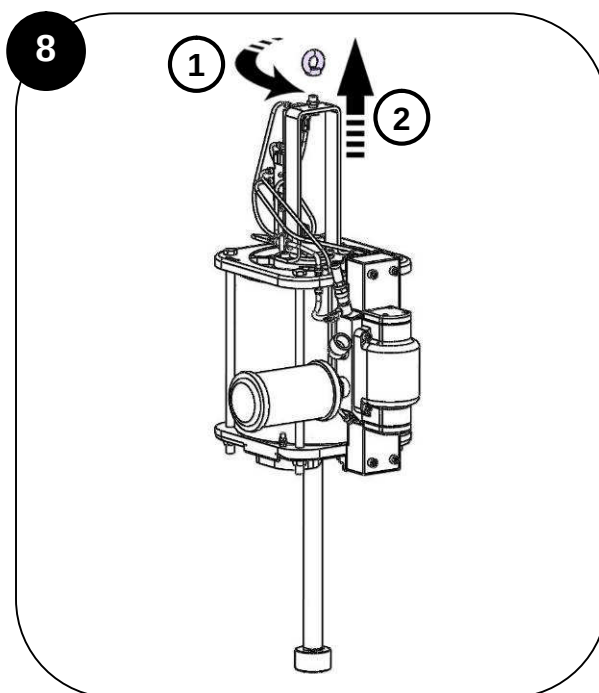
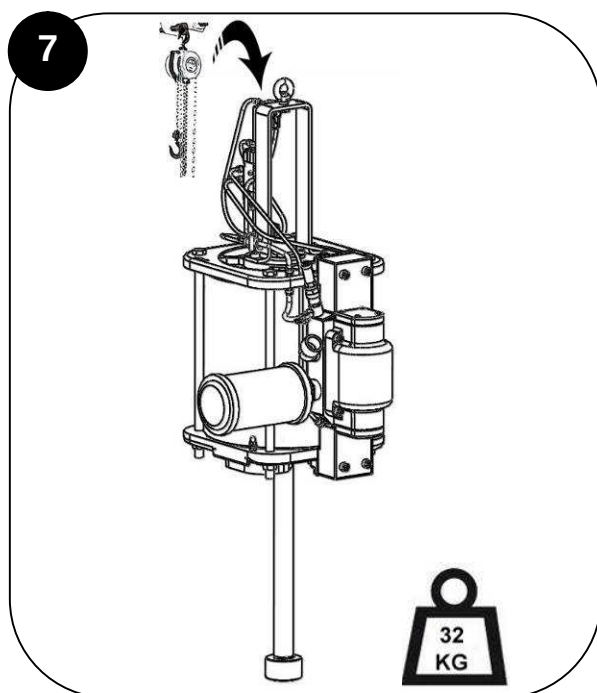
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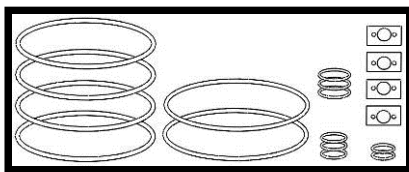
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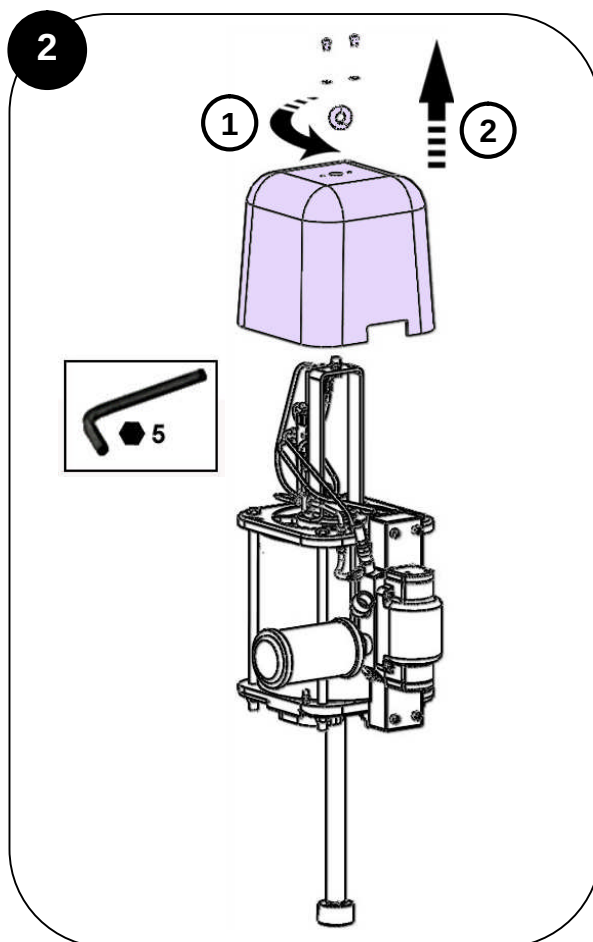
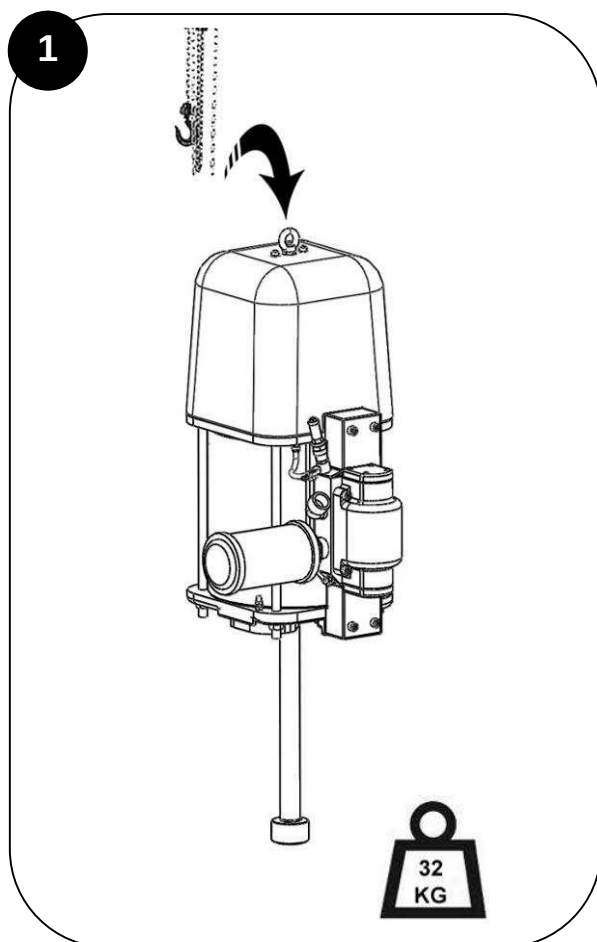
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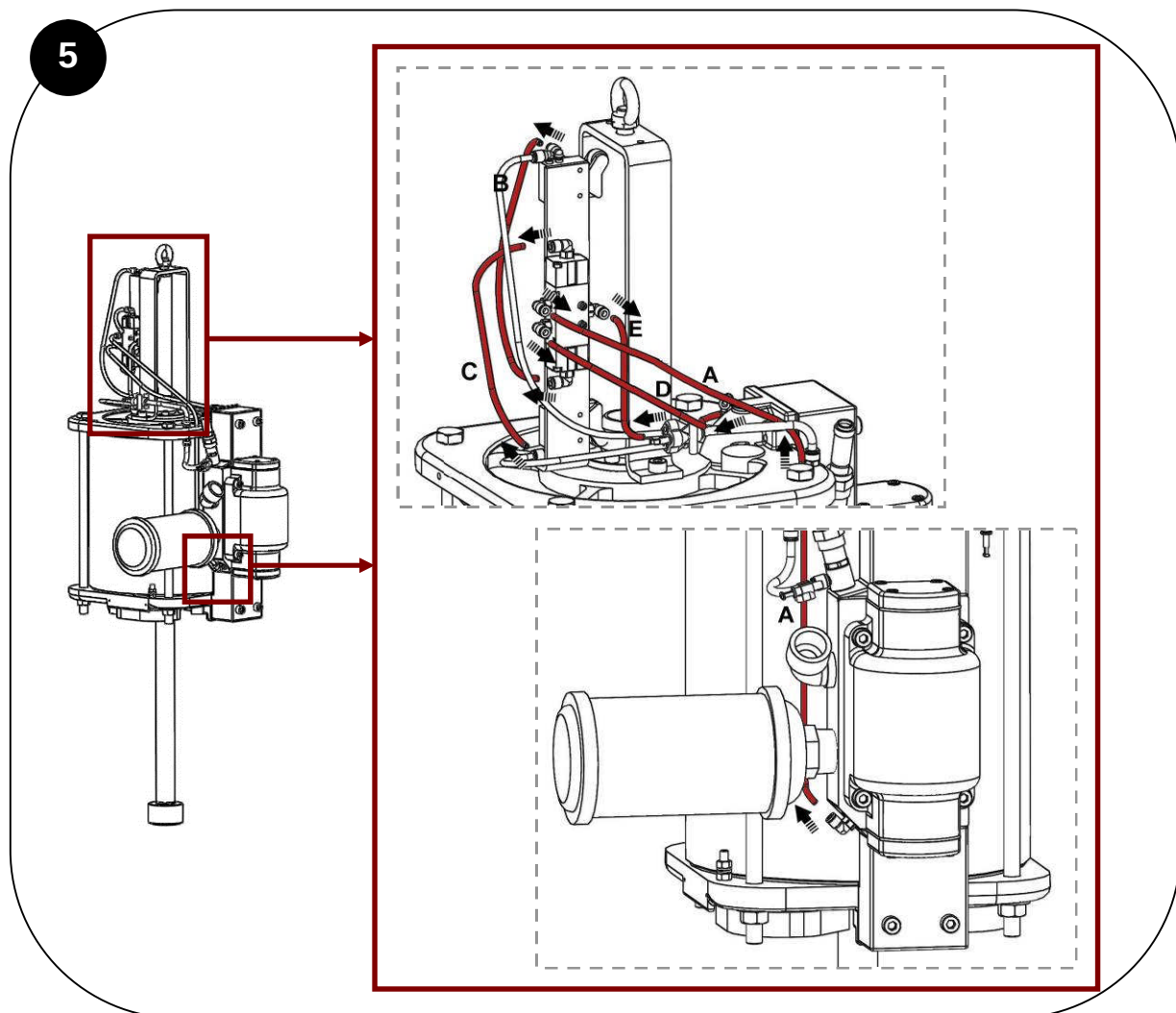
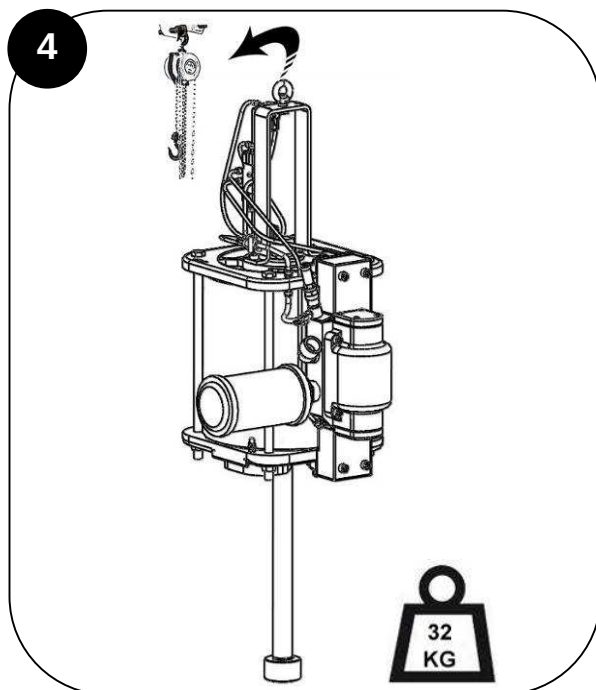
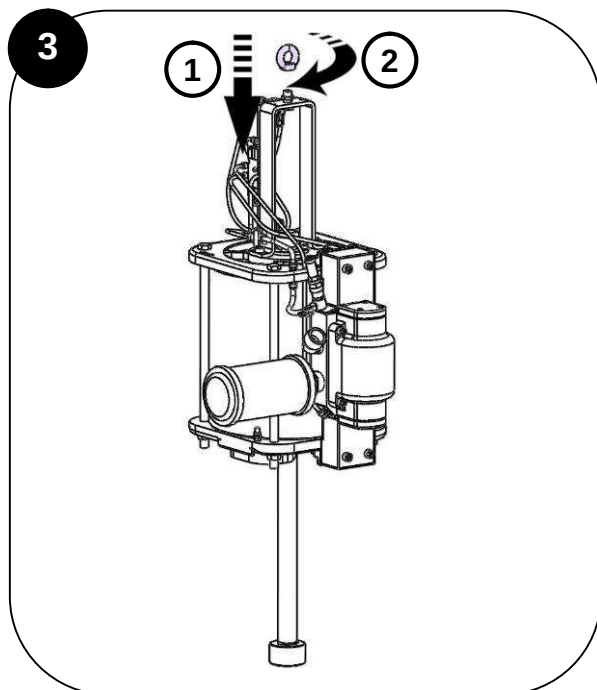
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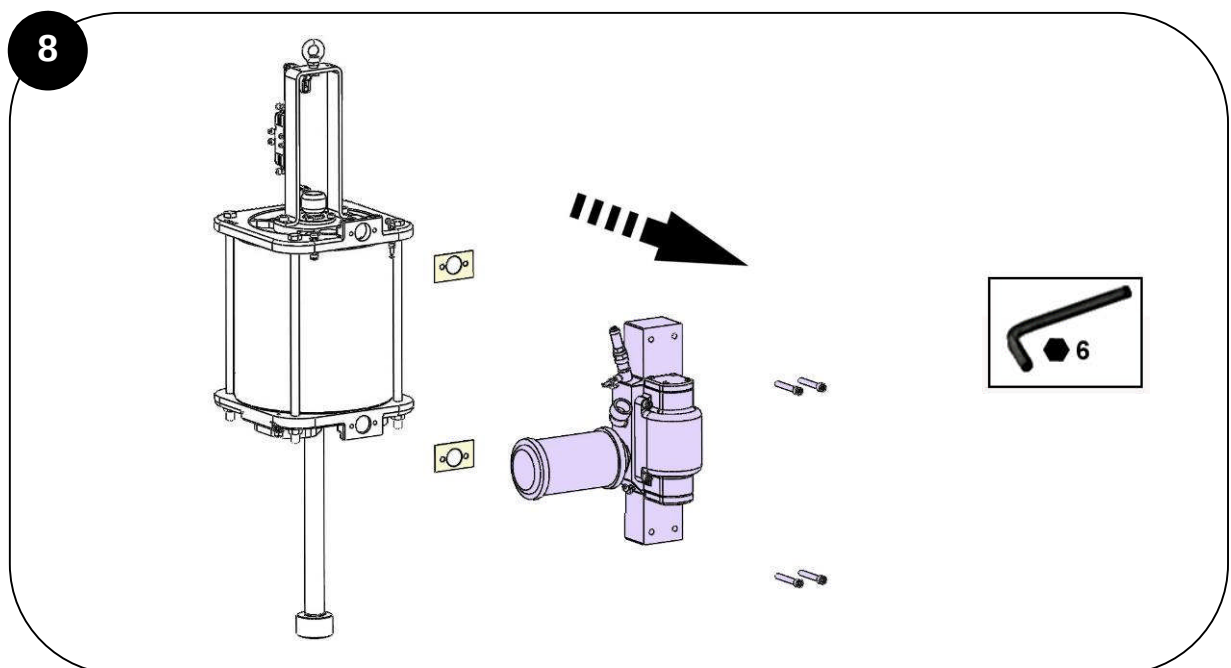
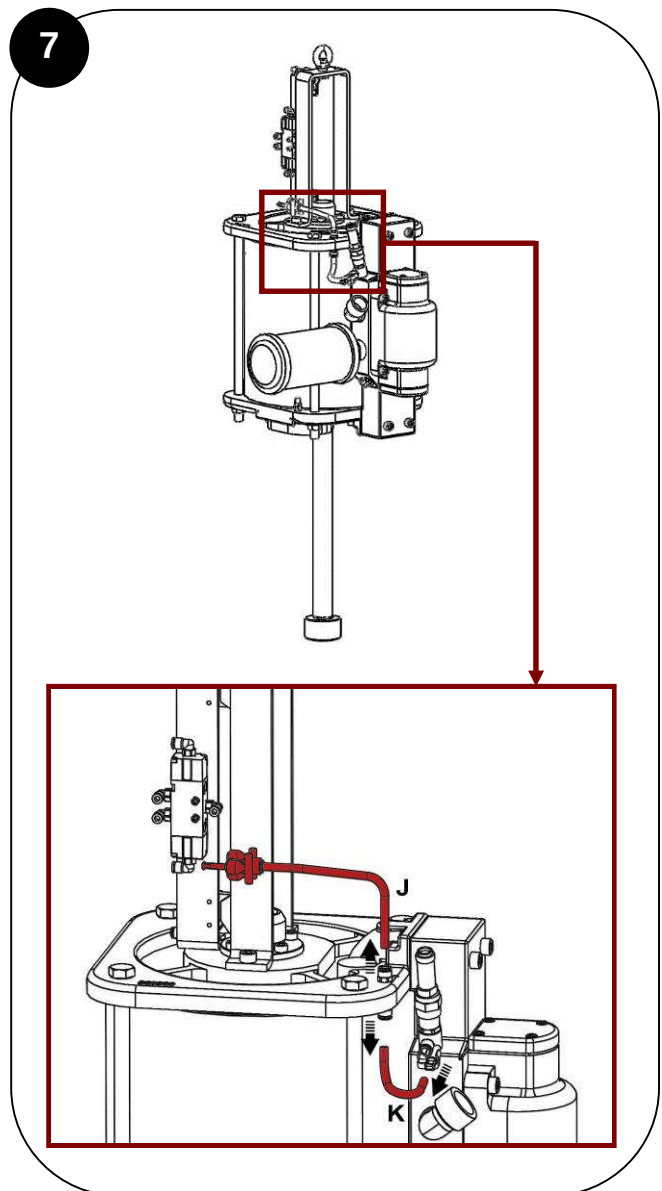
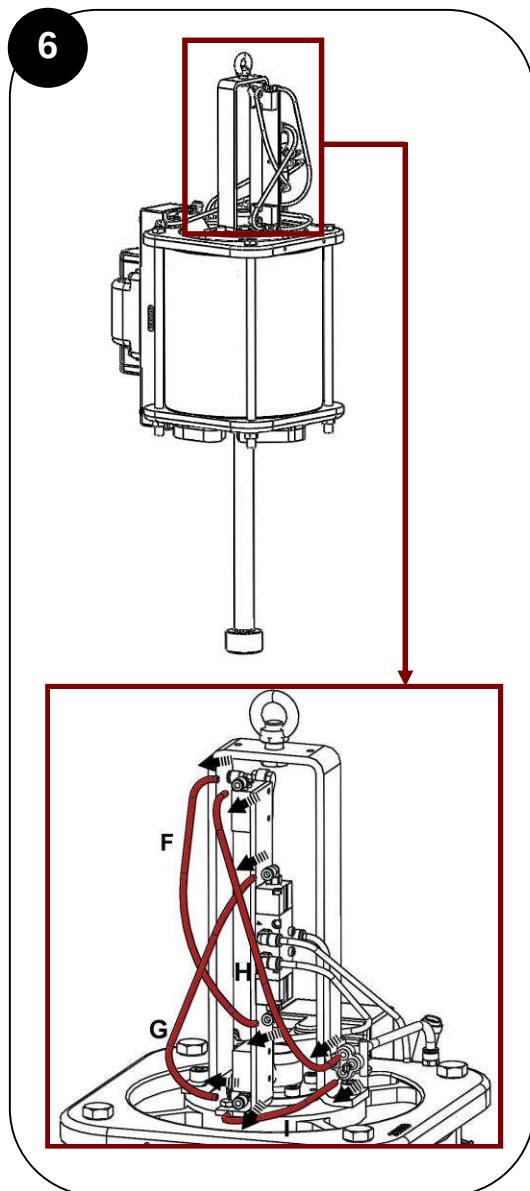
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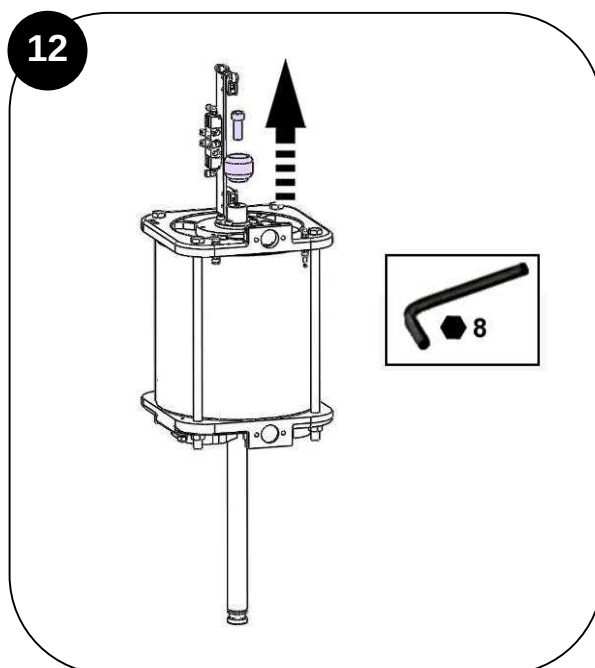
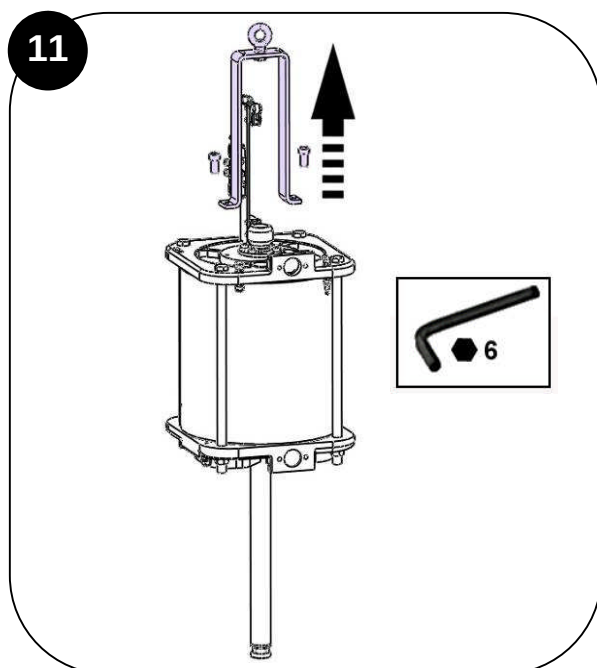
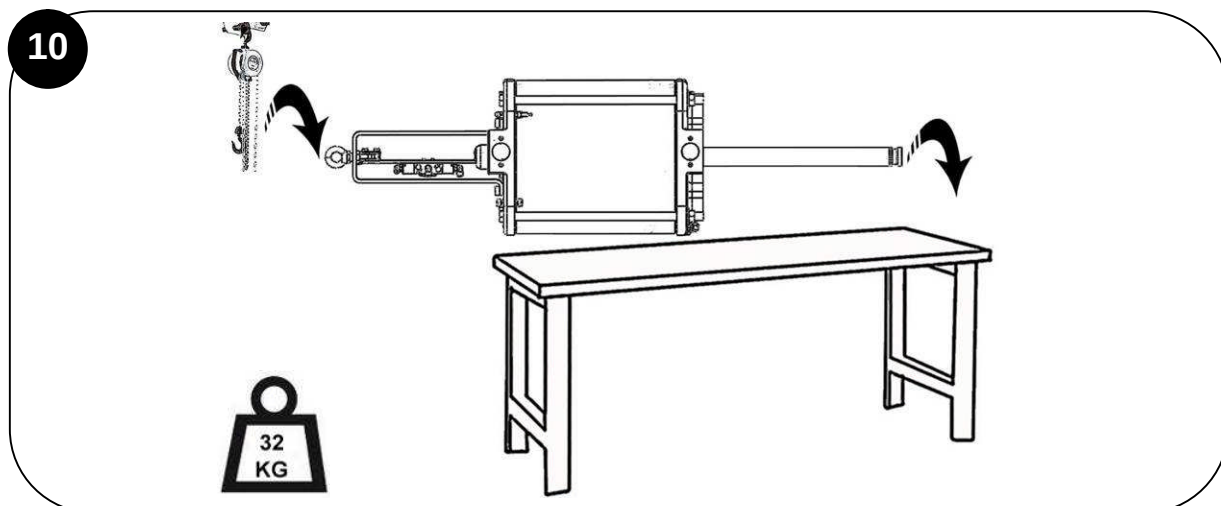
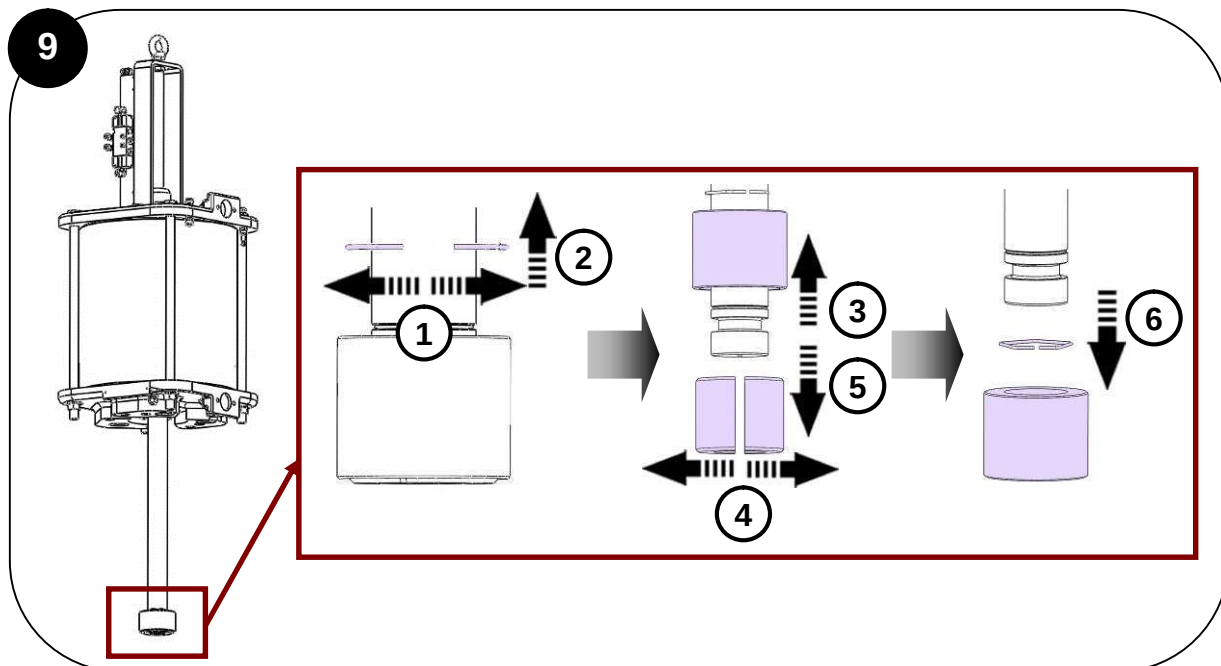
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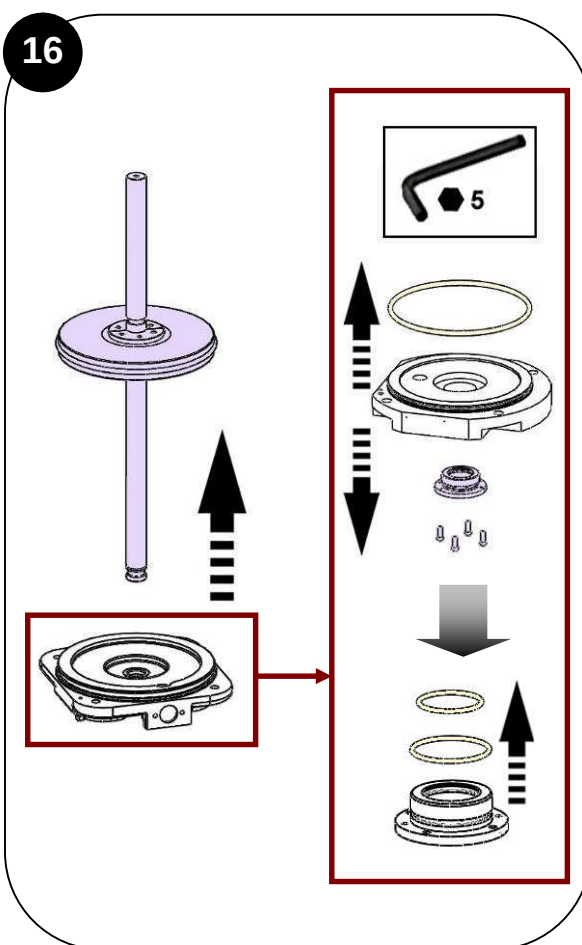
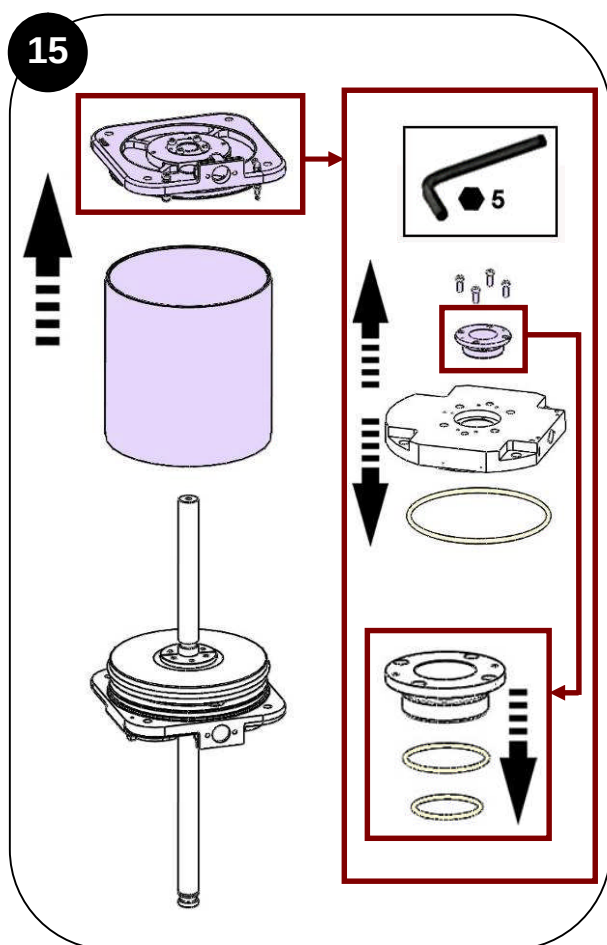
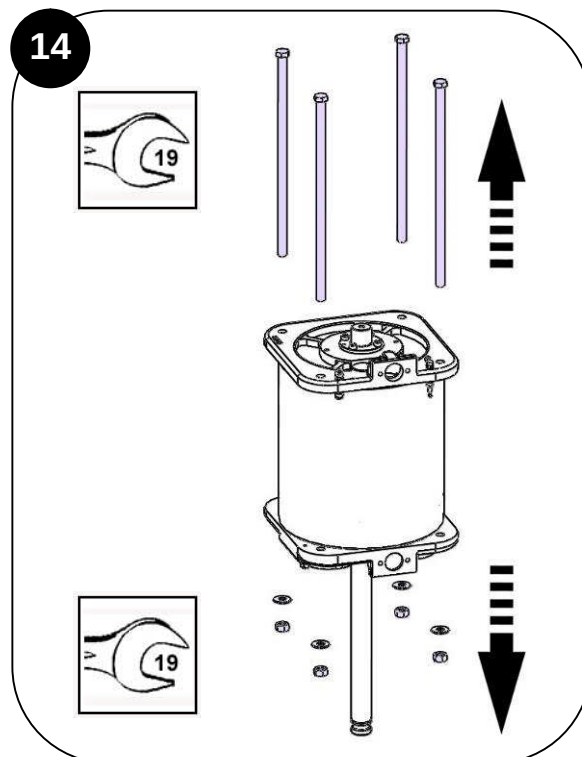
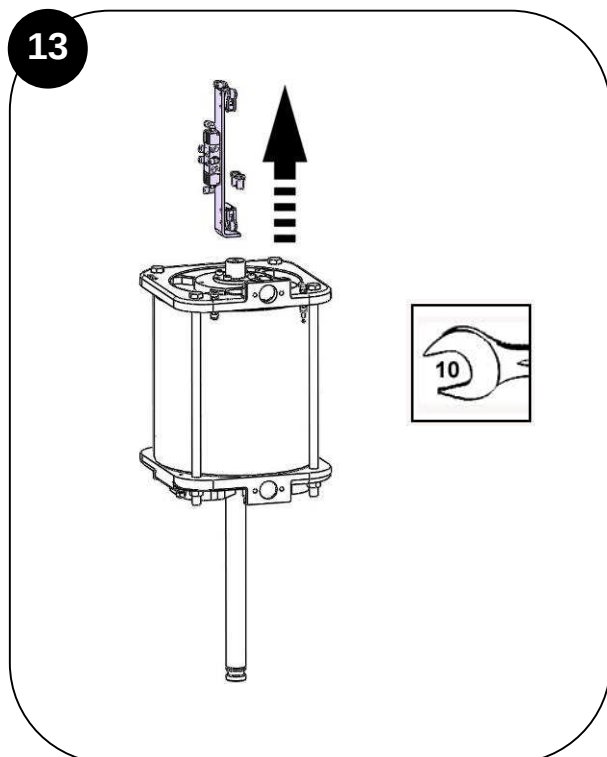
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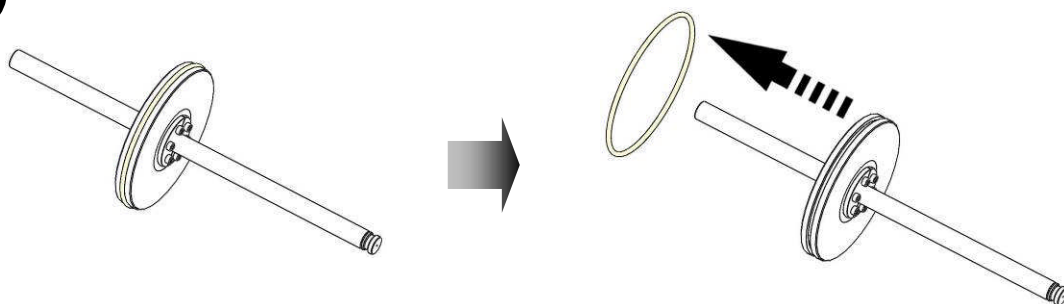




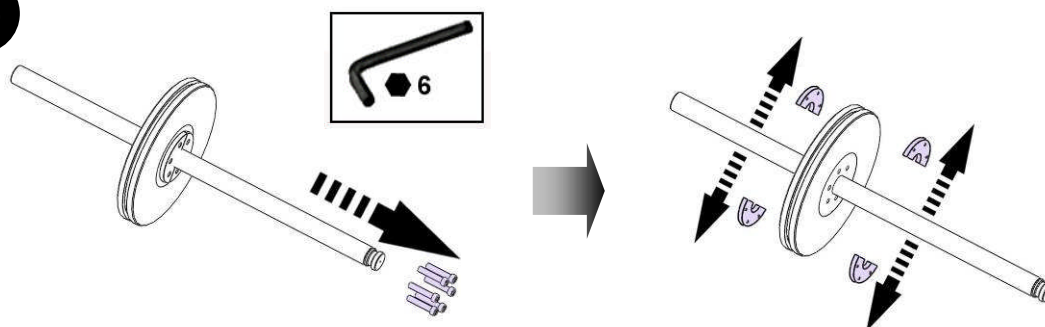




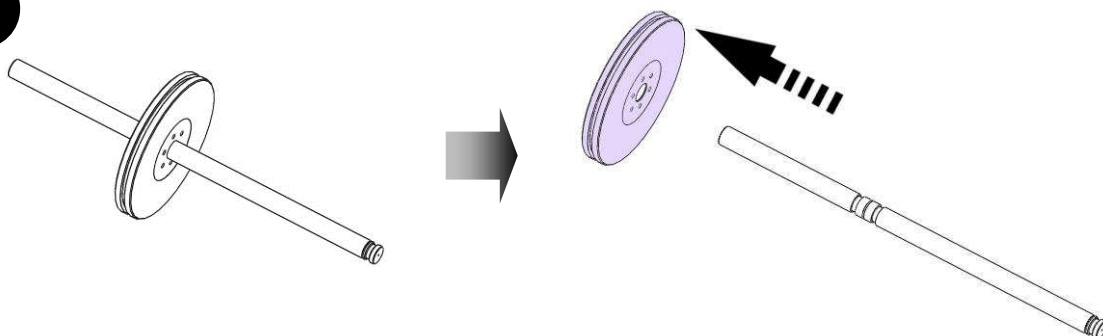
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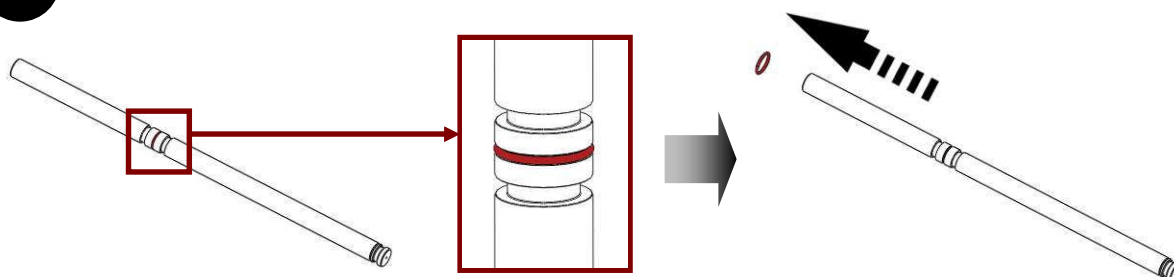
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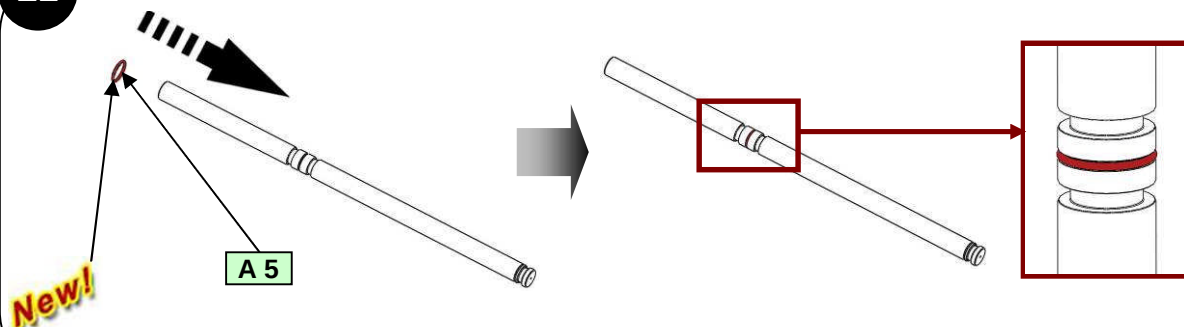
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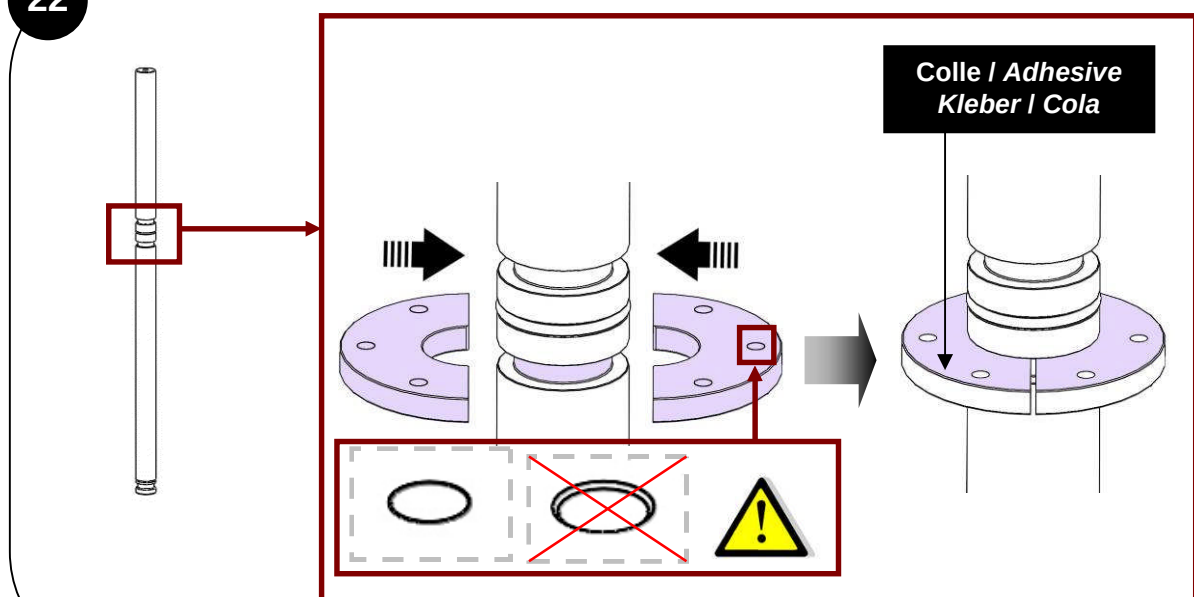
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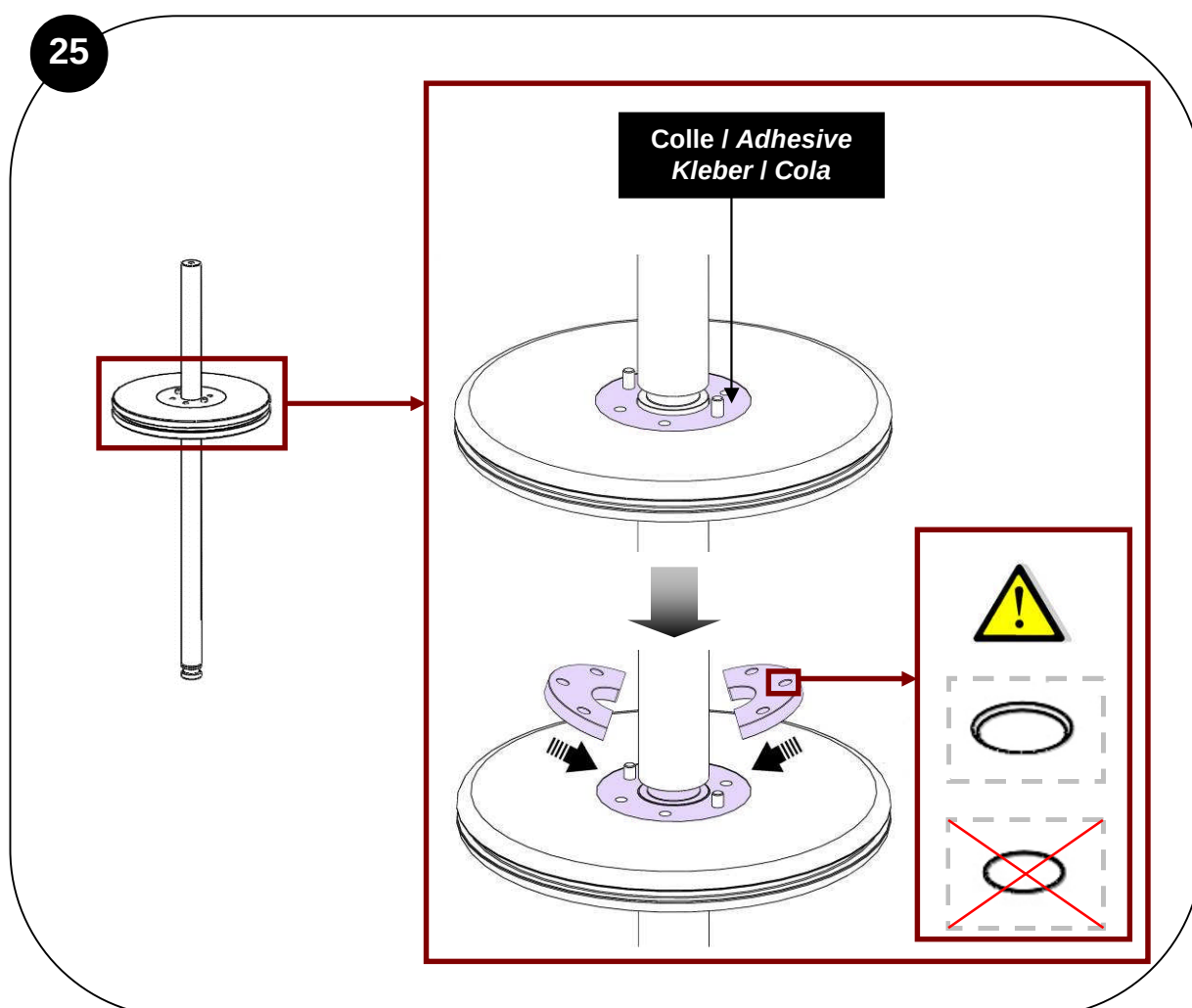
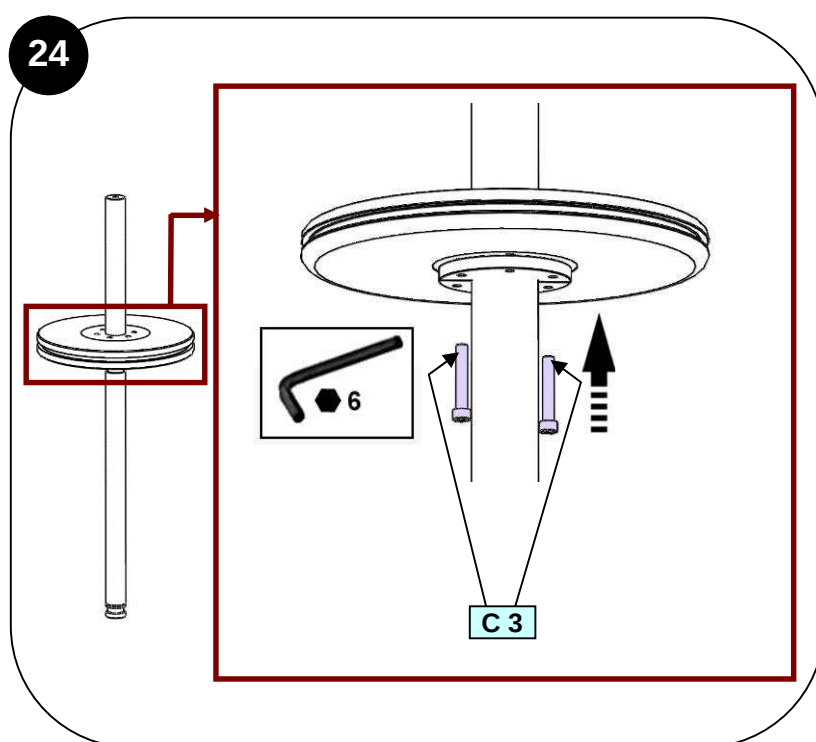
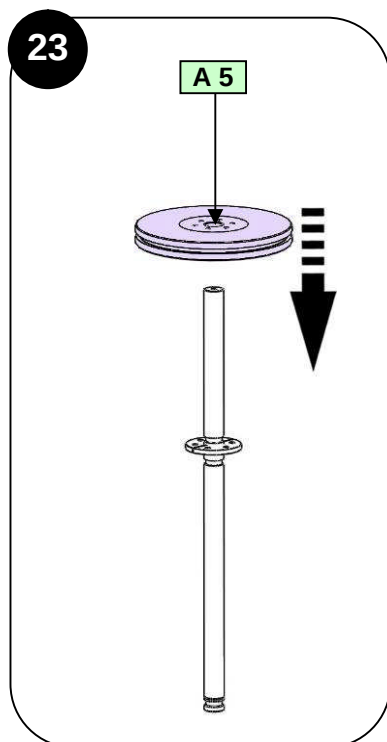
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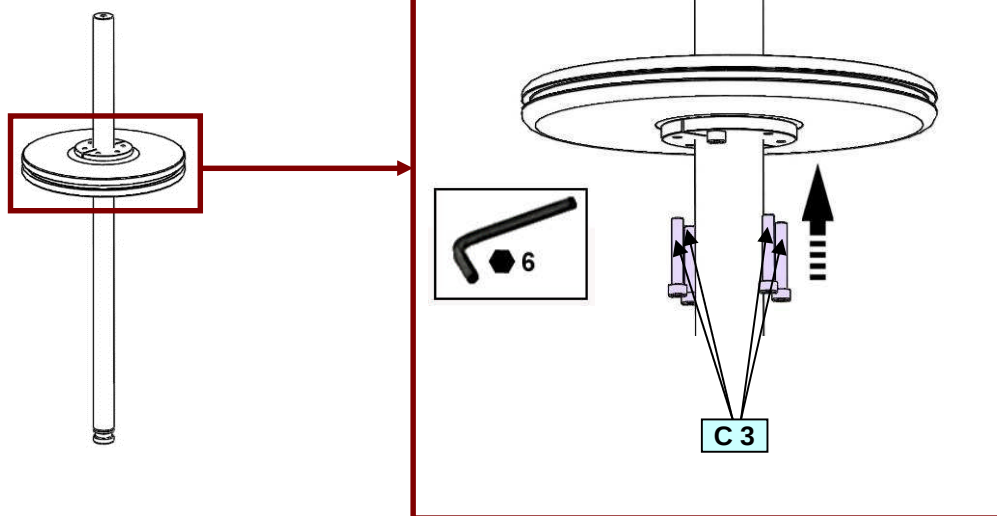


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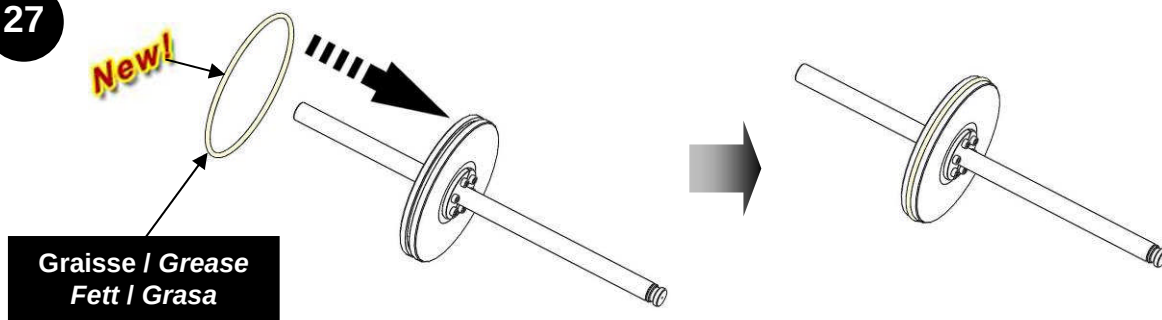




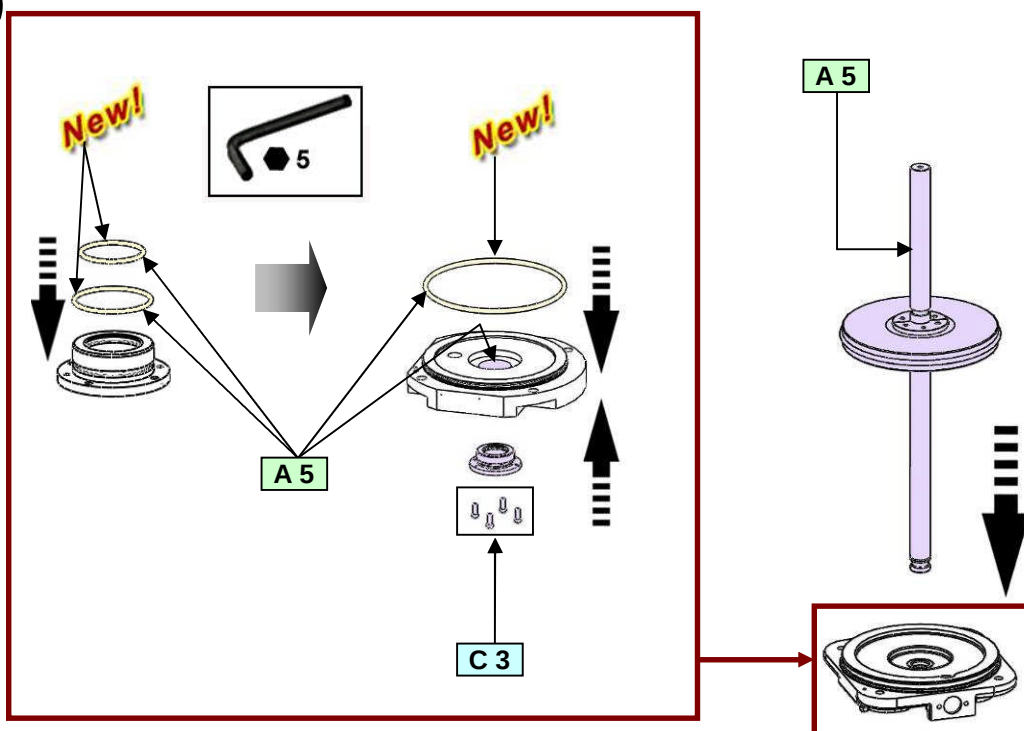
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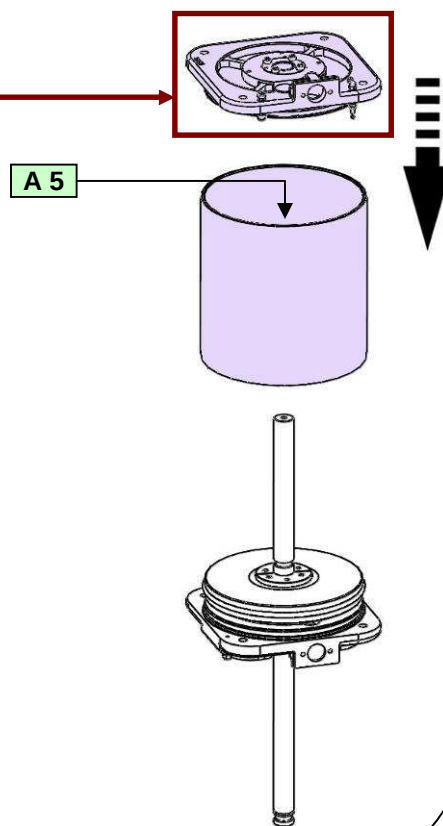
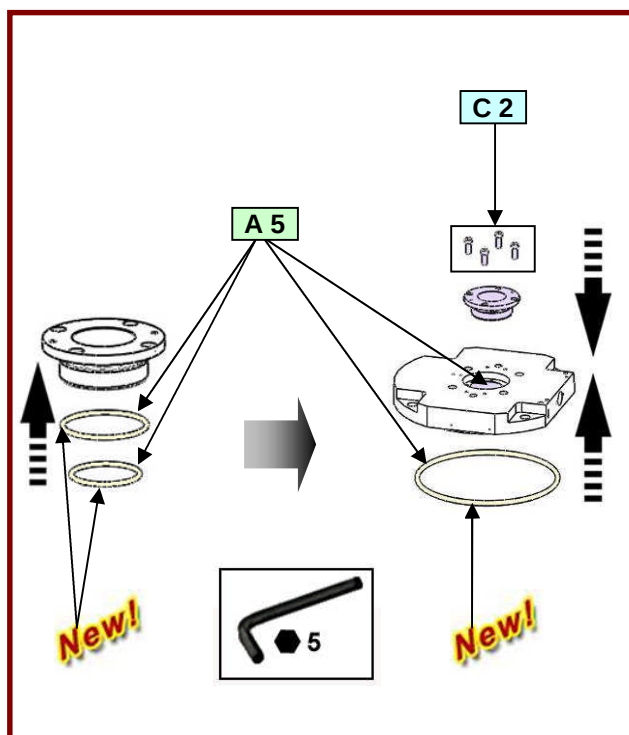
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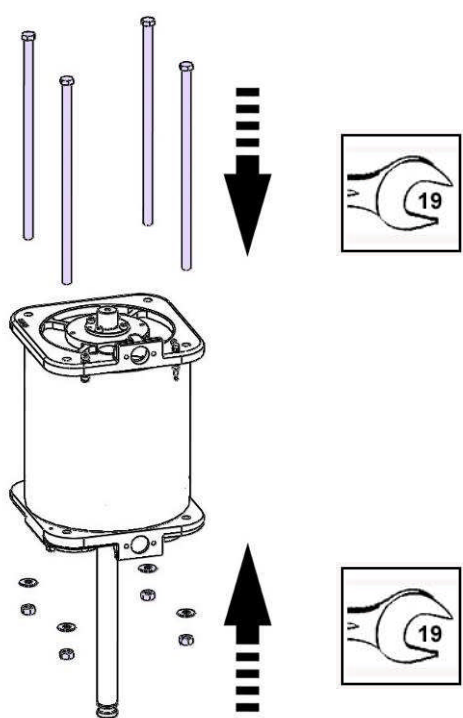
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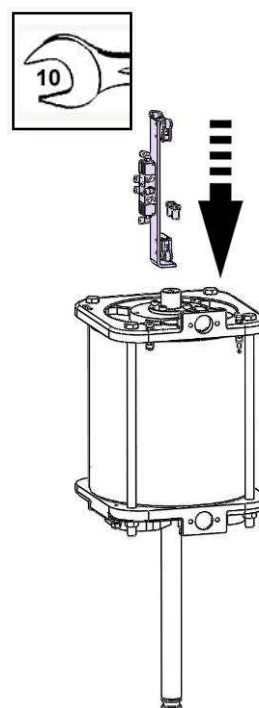
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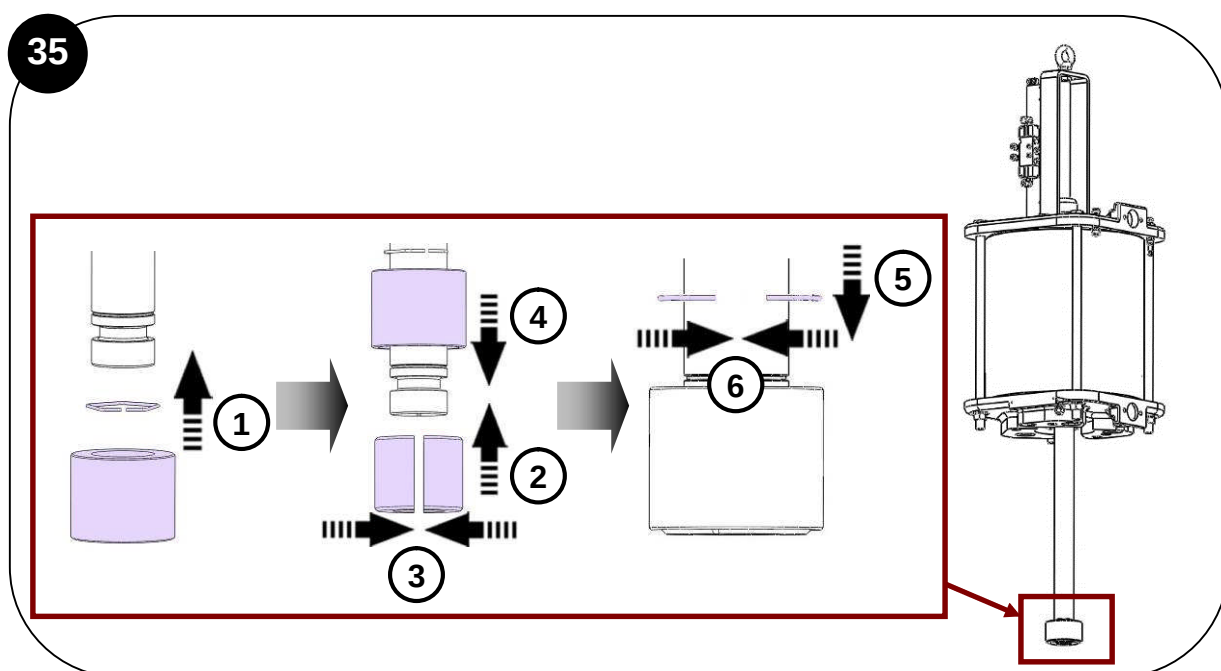
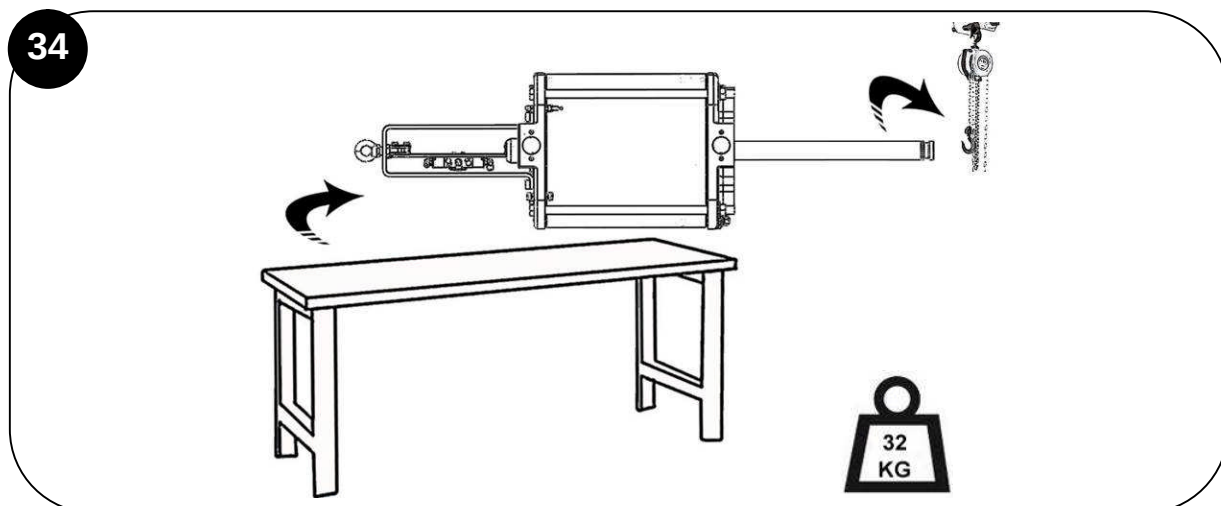
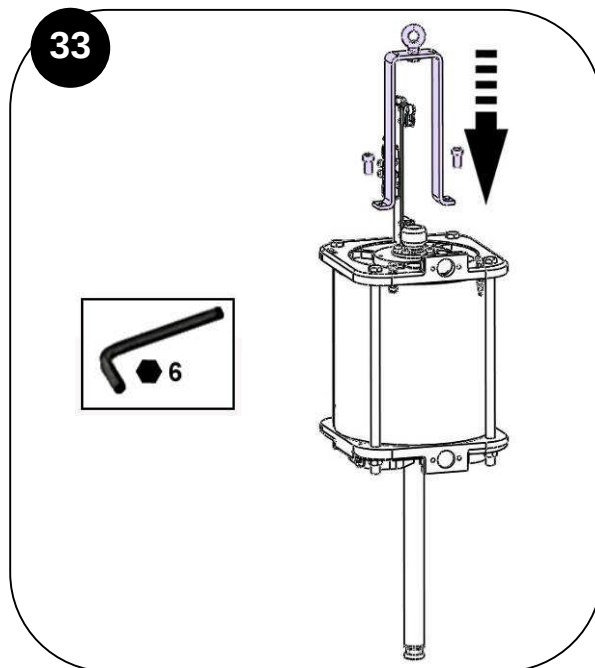
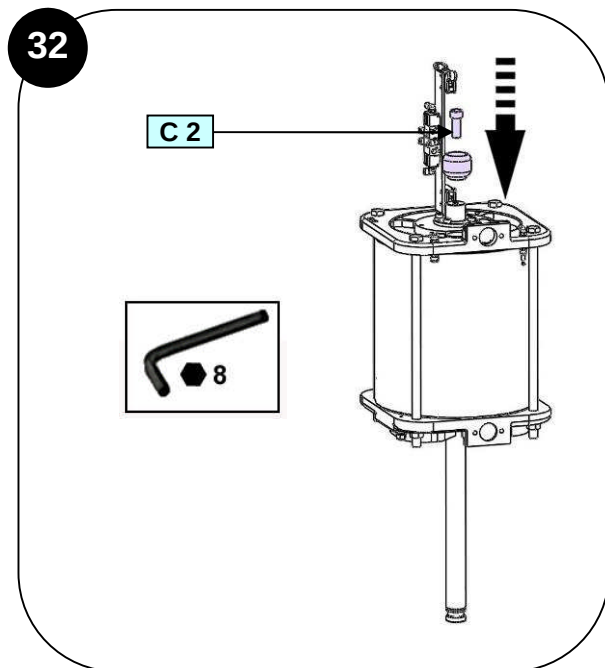


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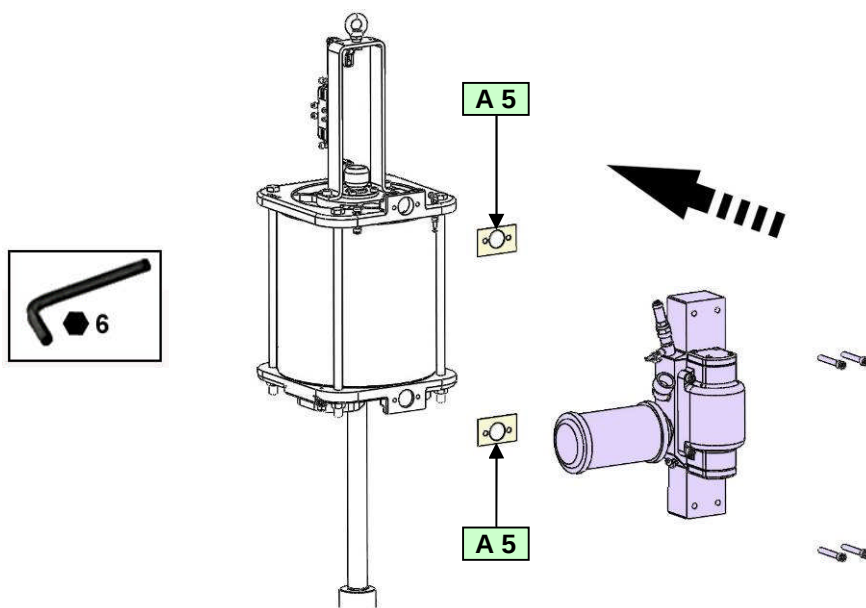


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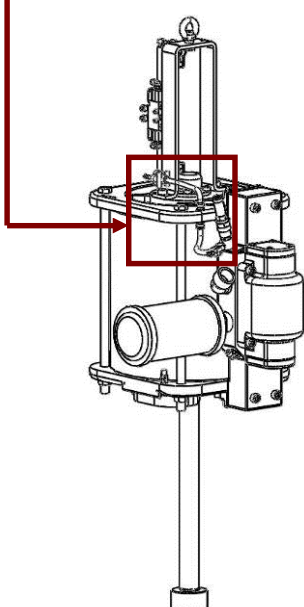
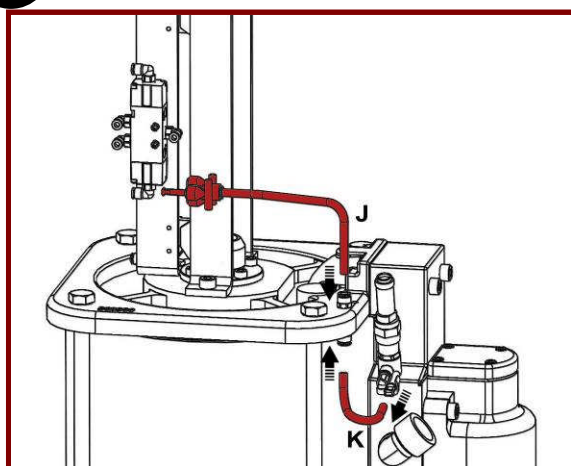




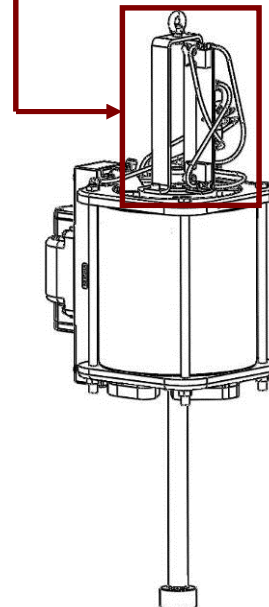
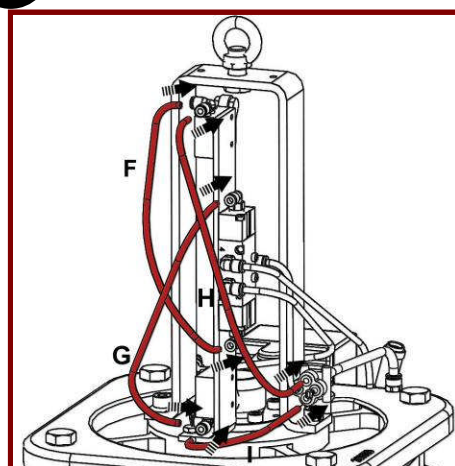
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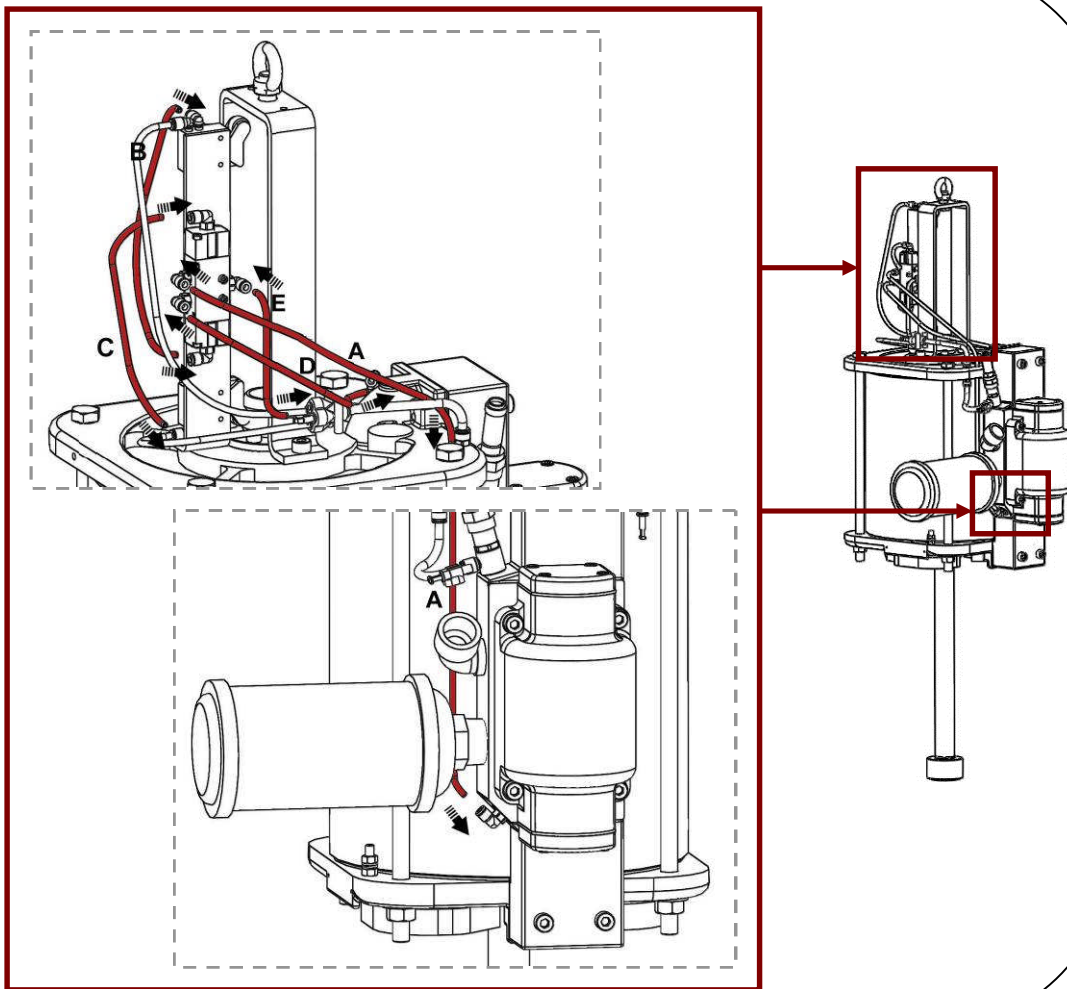
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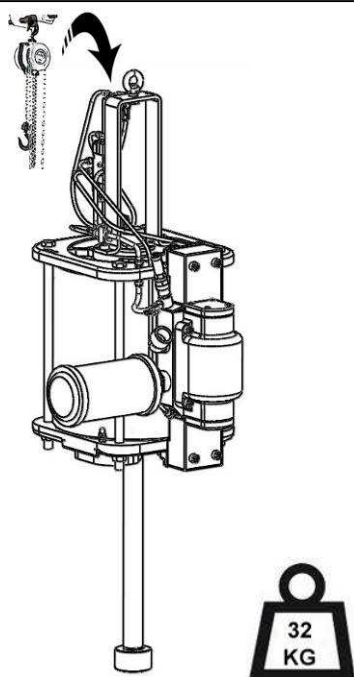
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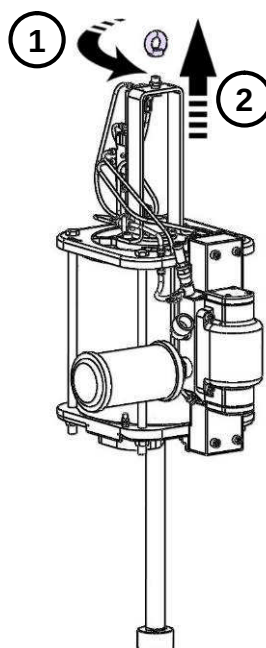
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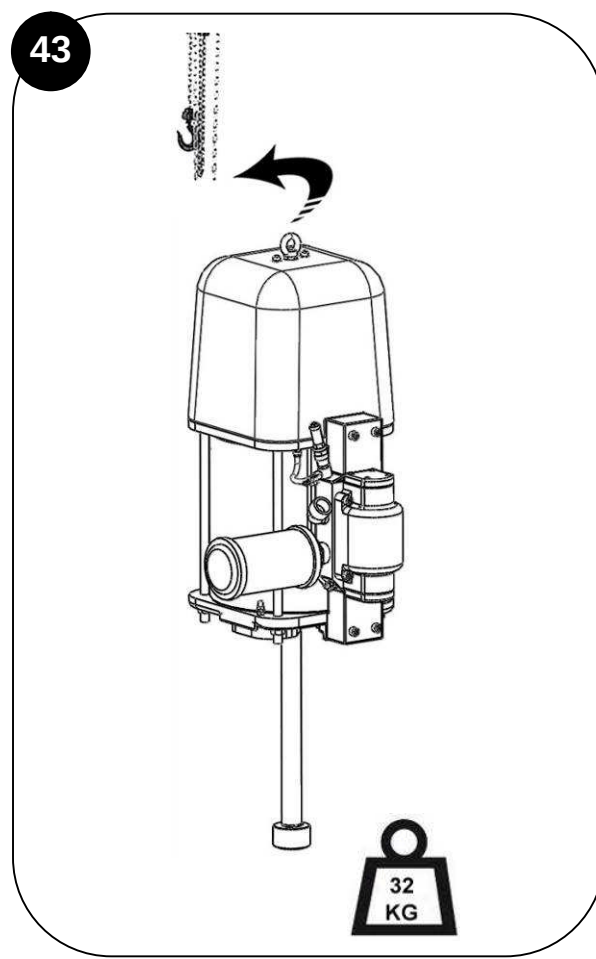
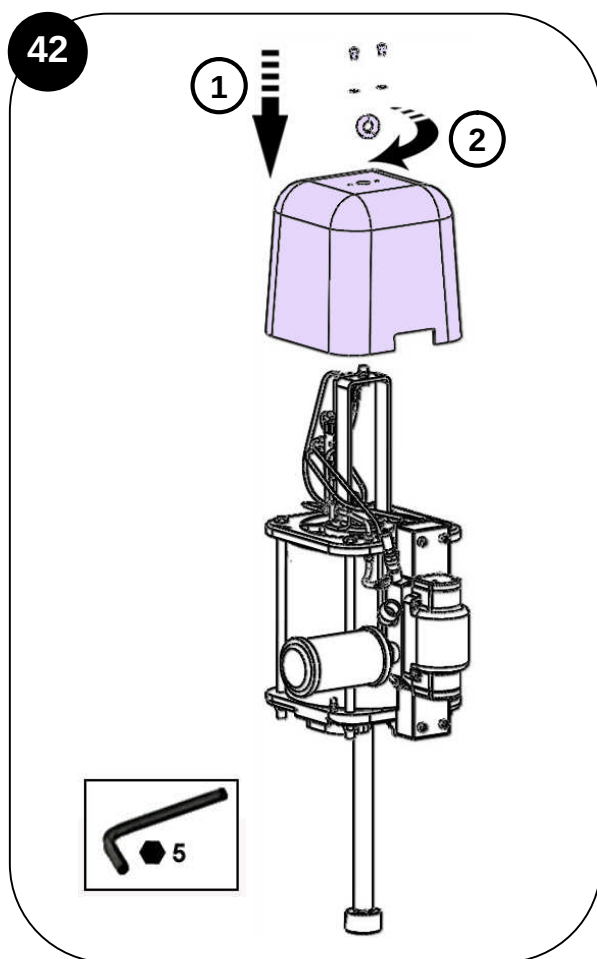


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DEMONTAGE / REMONTAGE DISASSEMBLY / REASSEMBLY DEMONTAGE / MONTAGE DESMONTAJE / MONTAJE

HYDRAULIQUE A BILLE / BALL FLUID SECTION KUGEL HYDRAULIKTEIL / HIDRÁULICA CON BOLA EOS C360

NOTICE ORIGINALE
/ TRANSLATION FROM THE ORIGINAL MANUAL
/ ÜBERSETZUNG DER ORIGINAL BETRIEBSANLEITUNG
/ TRADUCCIÓN DEL LIBRO ORIGINAL

La pompe est soumise à la directive ATEX et ne doit en aucun cas être modifiée.
Le non-respect de cette préconisation ne saurait engager notre responsabilité.
/ The pump is manufactured under the ATEX agreement and can not be modified.
KREMLIN REXSON will not be held responsible for any failure to comply with that instruction.

/ Diese Pumpe hat die ATEX Zulassung, deswegen darf sie nie verändert werden. Bei Nichtbeachtung dieser Anordnung, können wir keine Verantwortung für eine einwandfreie, regelkonforme Funktion der Pumpe übernehmen.

/ La bomba es de conformidad a la directiva ATEX y no debe ser modificada, en ningún caso. Kremlin Rexson no se hace responsable de que esta preconización no sea respetada.

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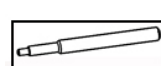
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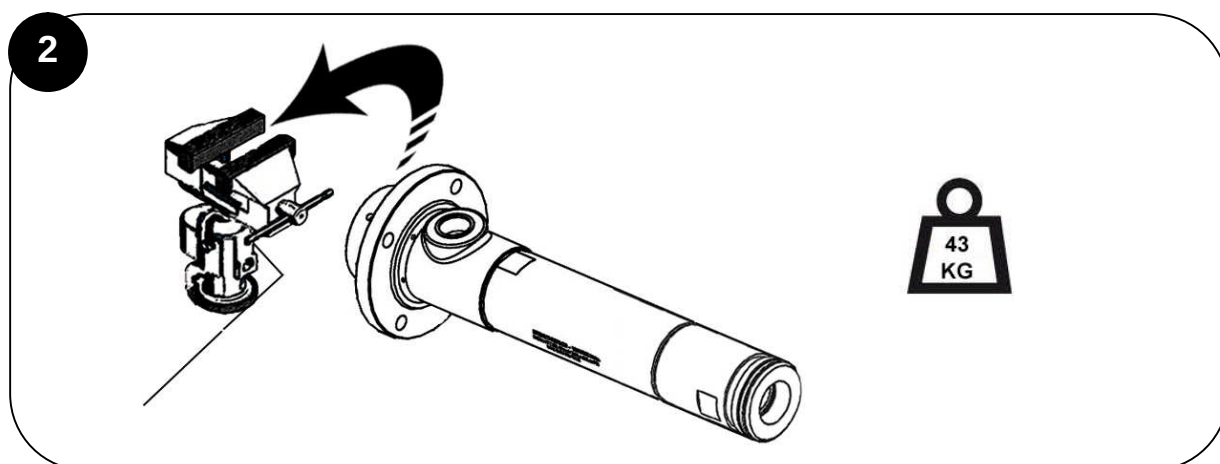
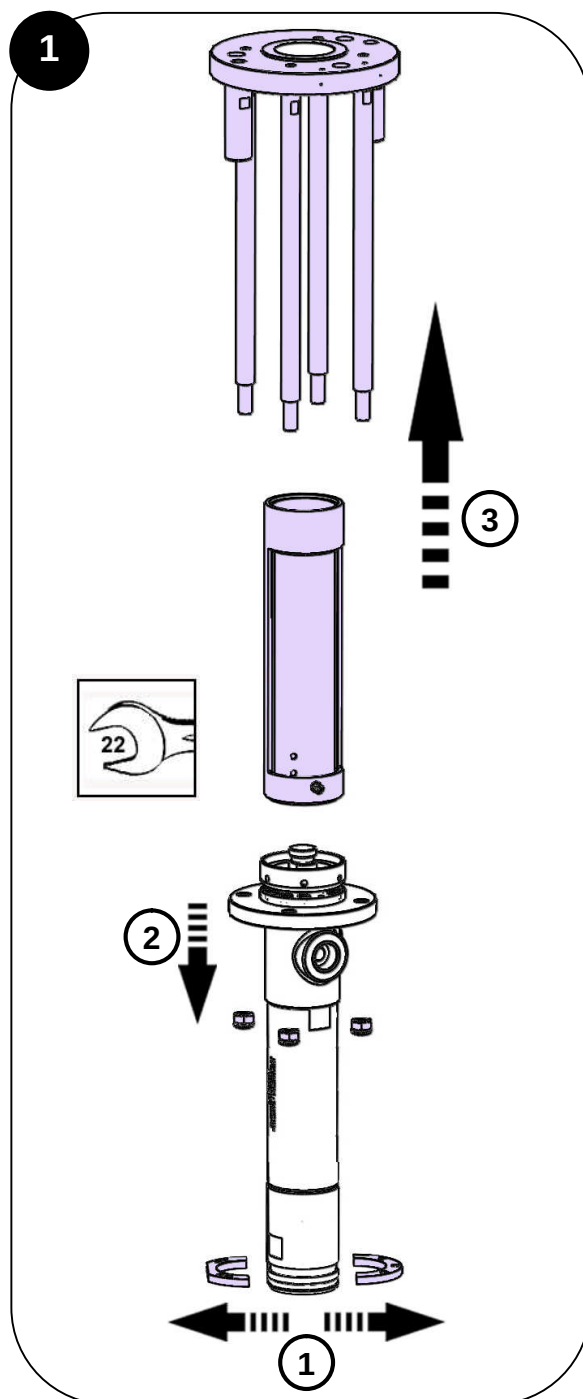
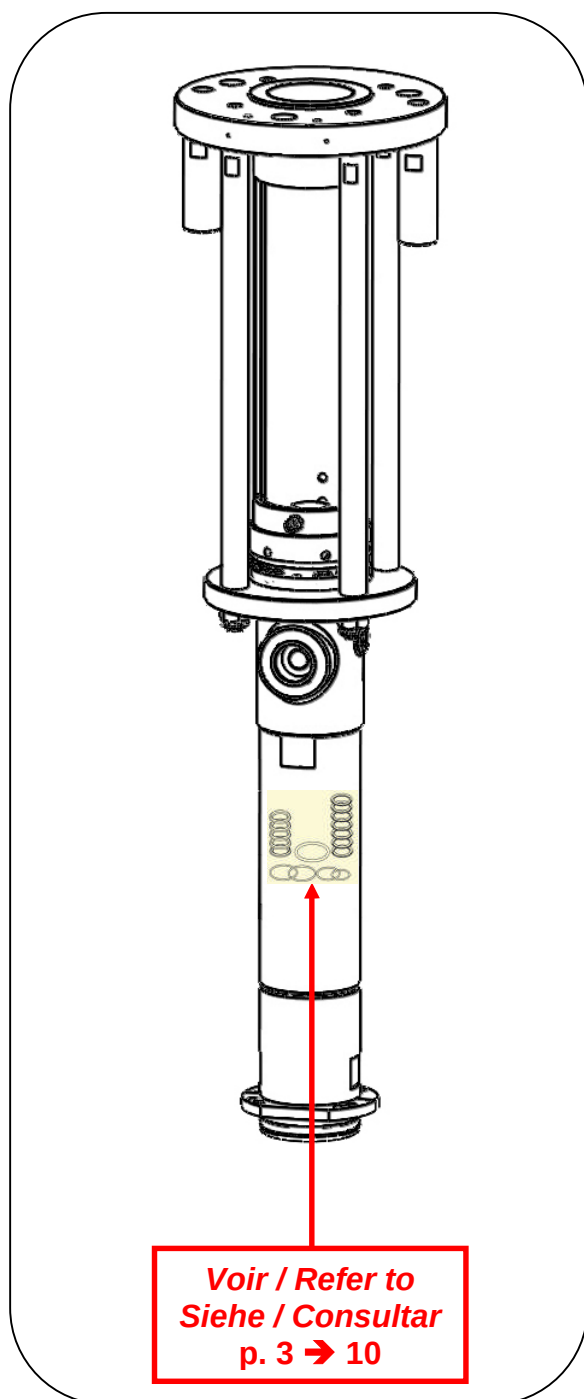
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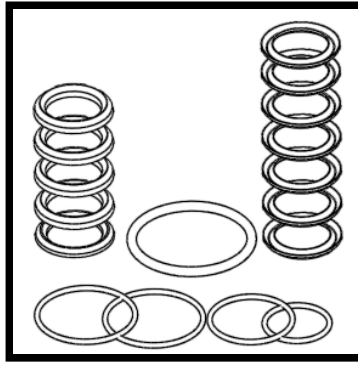
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Vous aurez besoin de / you need / Werkzeugaufstellung / Vd necesita :







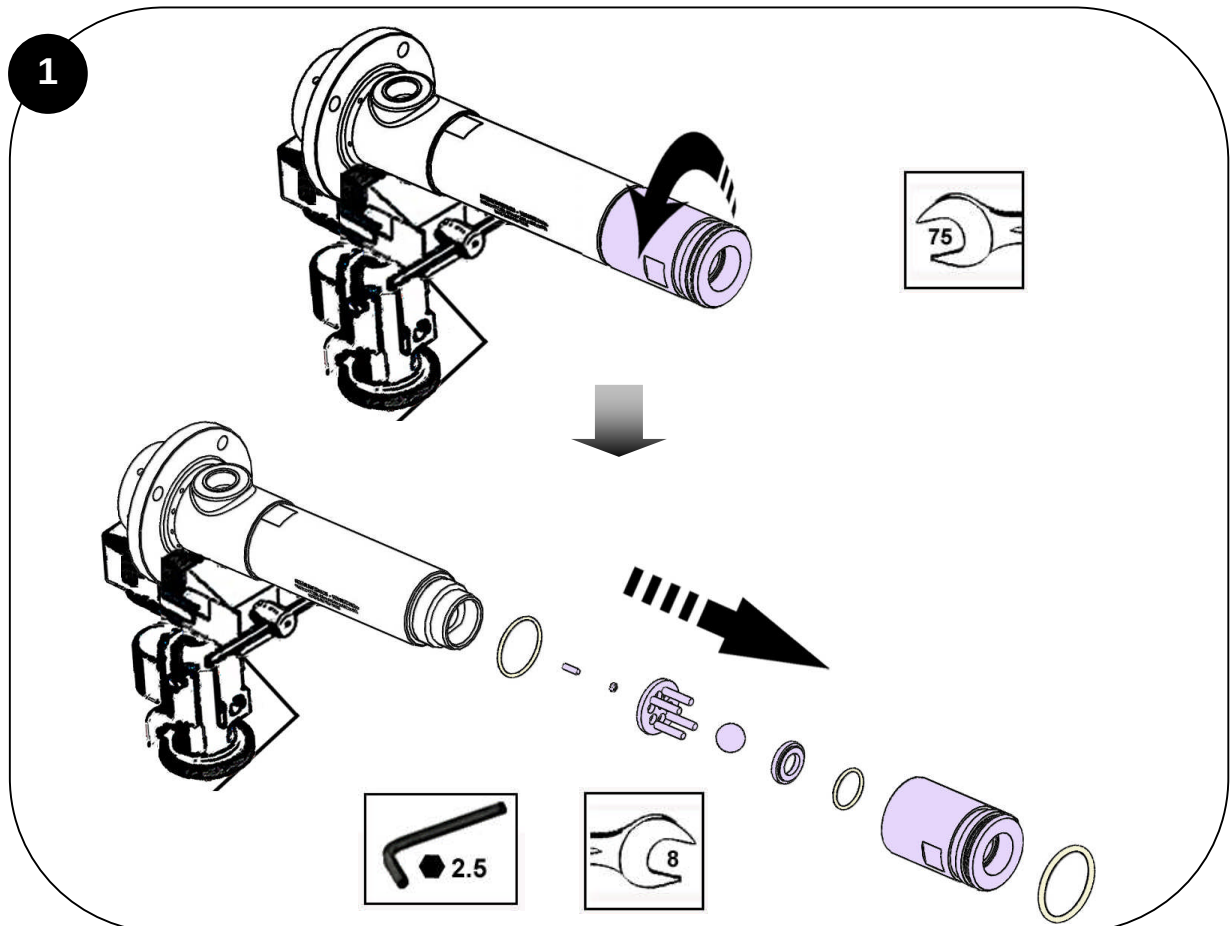
Des protecteurs (capot moteur, protecteur d'accouplement, carters,...) sont mis en place pour une utilisation sûre du matériel.

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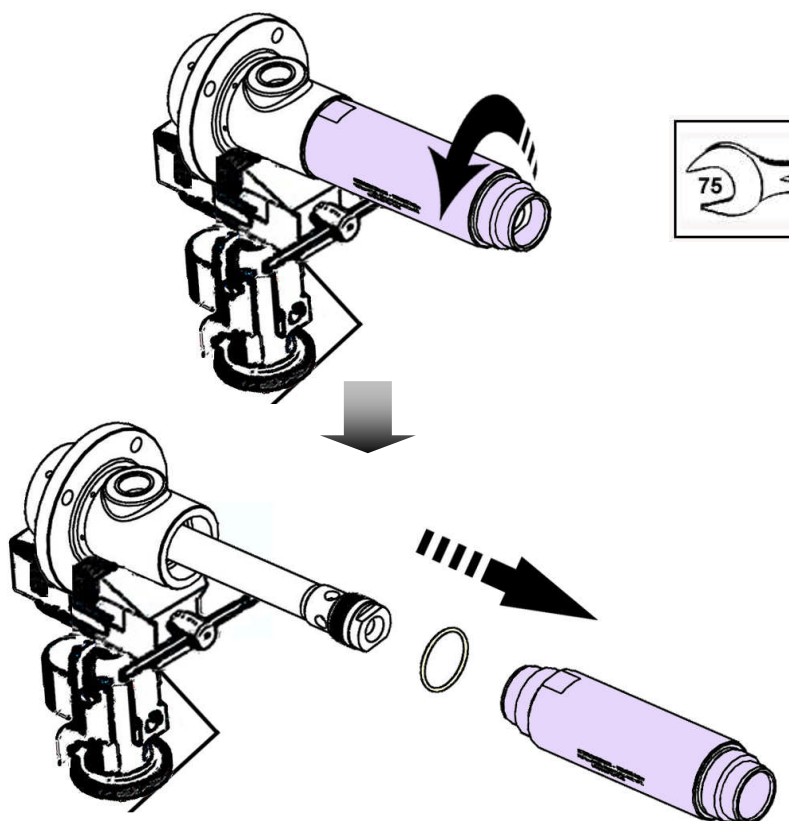
/ Guards (air motor cover, coupling shields, housings ...) have been designed for safe use of the equipment. The manufacturer will not be held responsible for bodily injury or failure and / or damage to property due to removal or partial removal of the guards.

/ Schutzvorrichtungen an diesem Gerät, wie Motorhaube, Kupplungsschutz, Gehäuse, ggf. Erdungskabel, sowie weitere Vorrichtungen, wurden für eine sichere Benutzung dieses Gerätes entwickelt und angebracht. Der Hersteller lehnt jede Verantwortung für Körperschäden, Fehlfunktionen, Beschädigung der Geräte und jegliche andere Fehler ab, die durch die ganze oder teilweise Entfernung, Modifikation oder unsachgemäße Handhabung der Schutzvorrichtungen oder anderer Geräteteile entstehen.

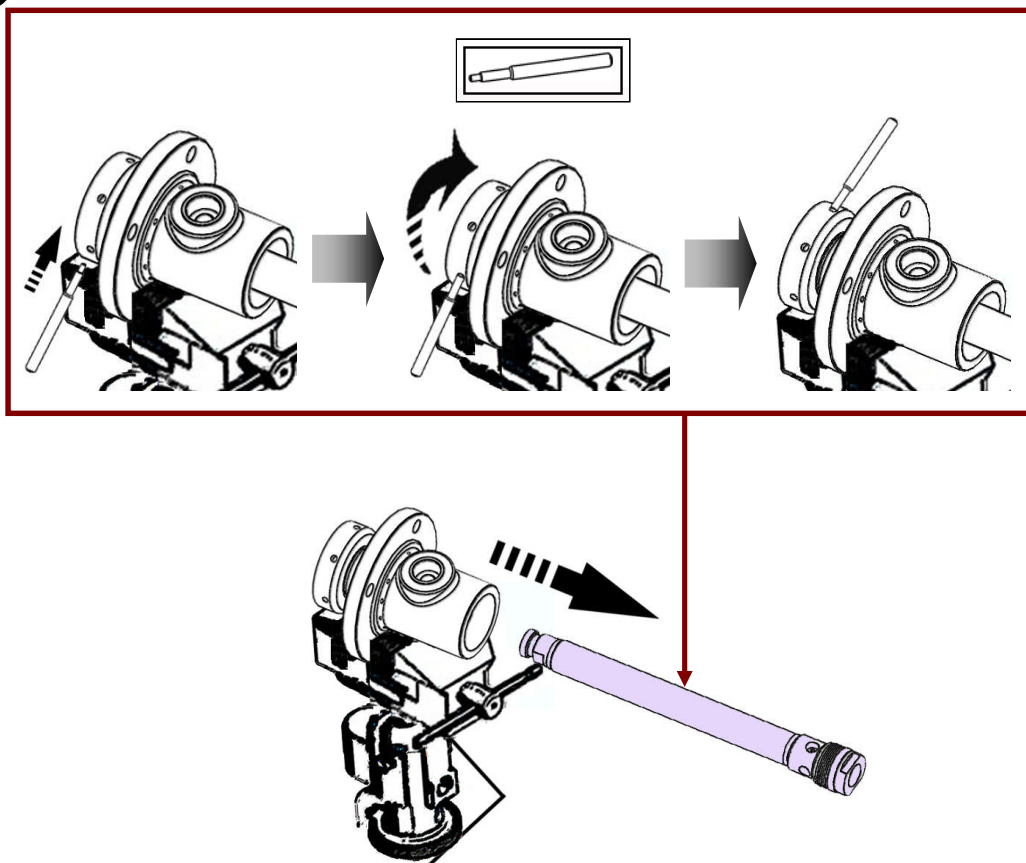
/ Protectores (capó motor, protector de acoplamiento, cárteres,...) se colocan para una utilización segura del material. El fabricante no se hace responsable, en caso de daños personales, así como de las averías y / o daños del material, resultantes de la destrucción, la ocultación o la retirada total o parcial de los protectores.

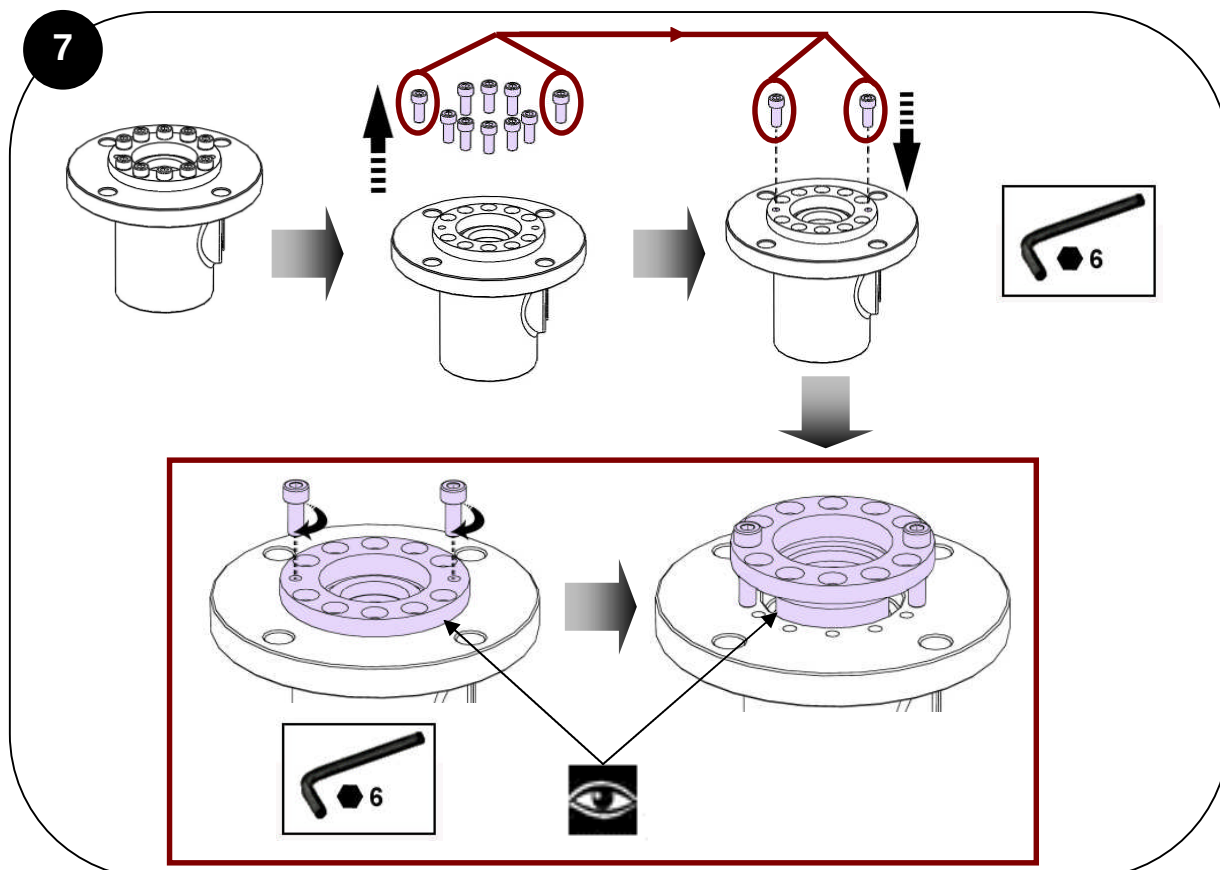
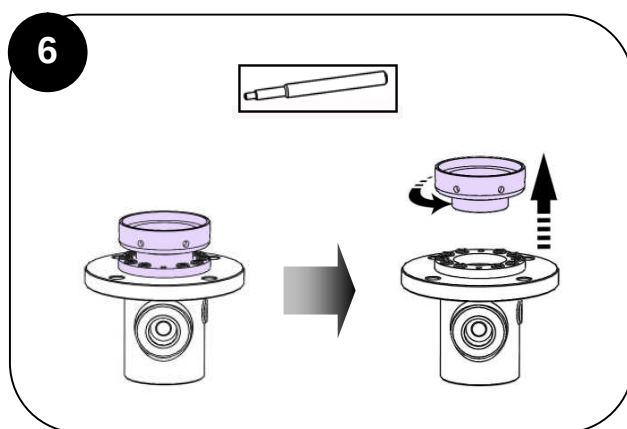
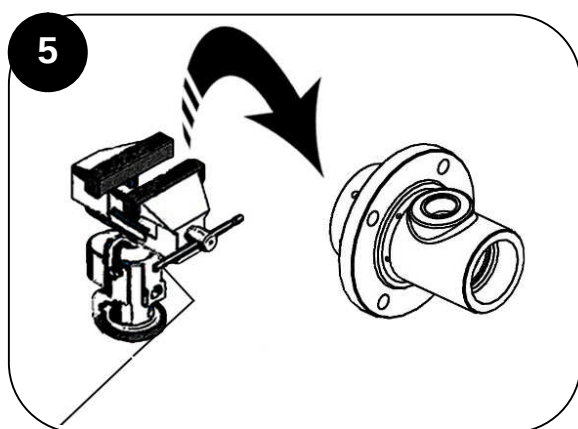
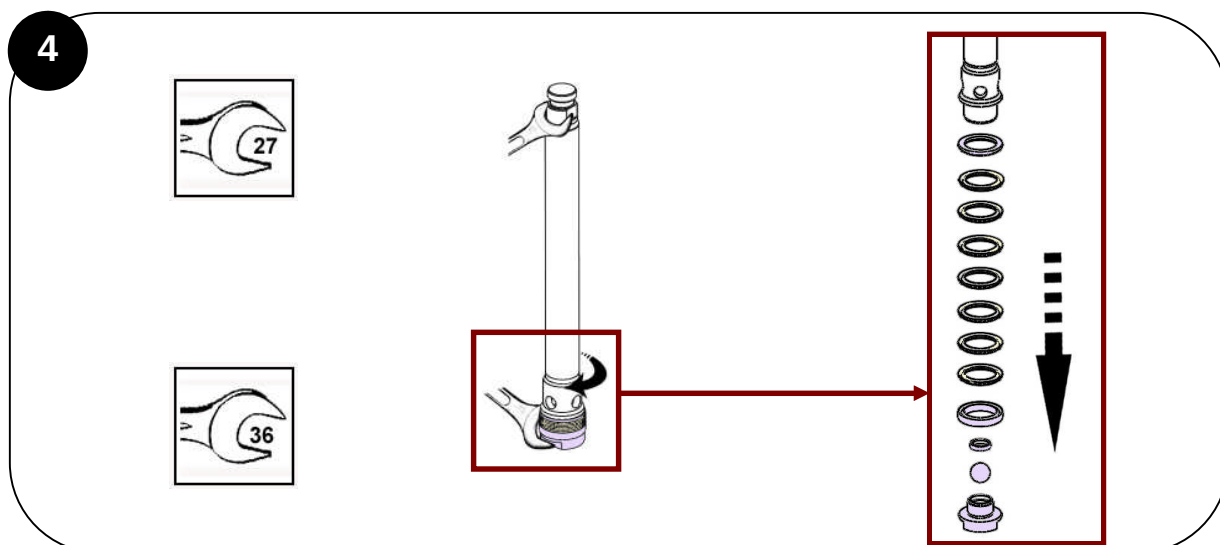


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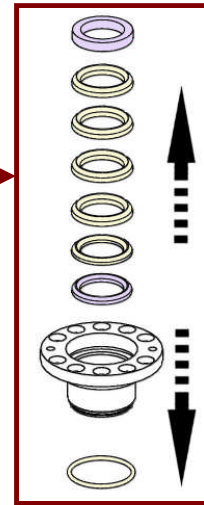
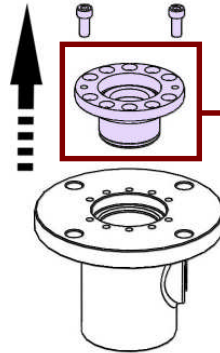
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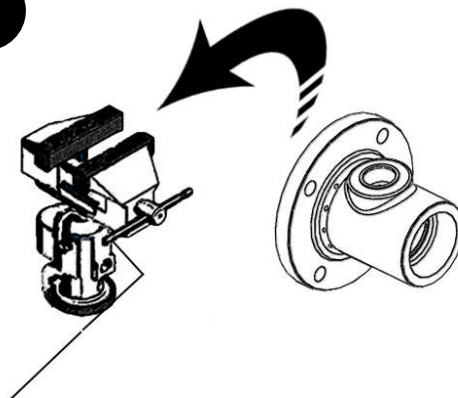


Le fabricant ne peut être tenu pour responsable en cas de dommages corporels ainsi que des pannes et / ou endommagement du matériel résultant de la destruction, de l'occultation ou du retrait total ou partiel des protecteurs.

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9



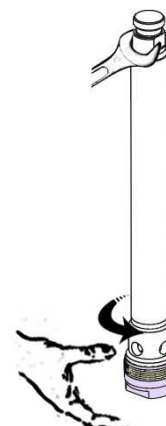
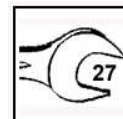
10

Colle anaérobie tube étanche
Medium strength - Anaerobic Adhesive
Mittelstarker Anaerobie Kleber
Cola para la estanqueidad
(Loctite 577)

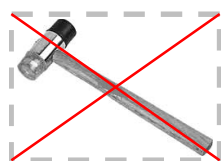
Graisse / Grease
Fett / Grasa

New!

PTFE G
PTFE G
PTFE G
PTFE G
PTFE G
PTFE G
PTFE G

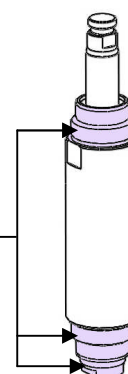


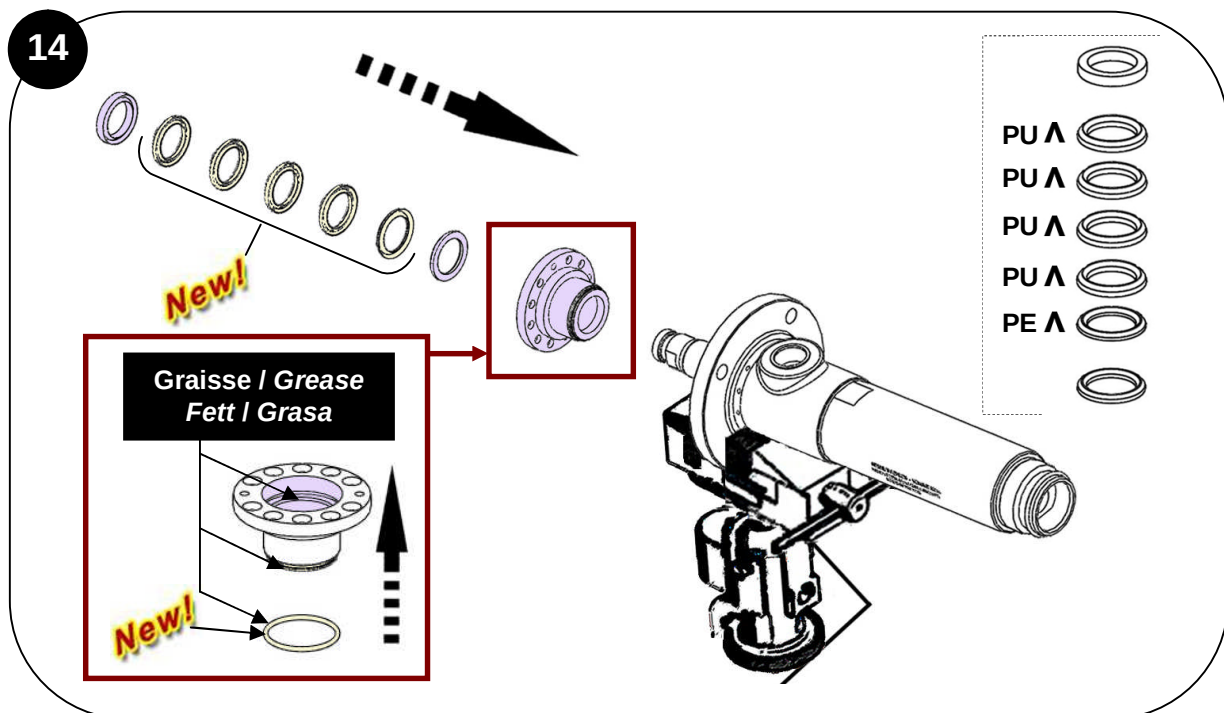
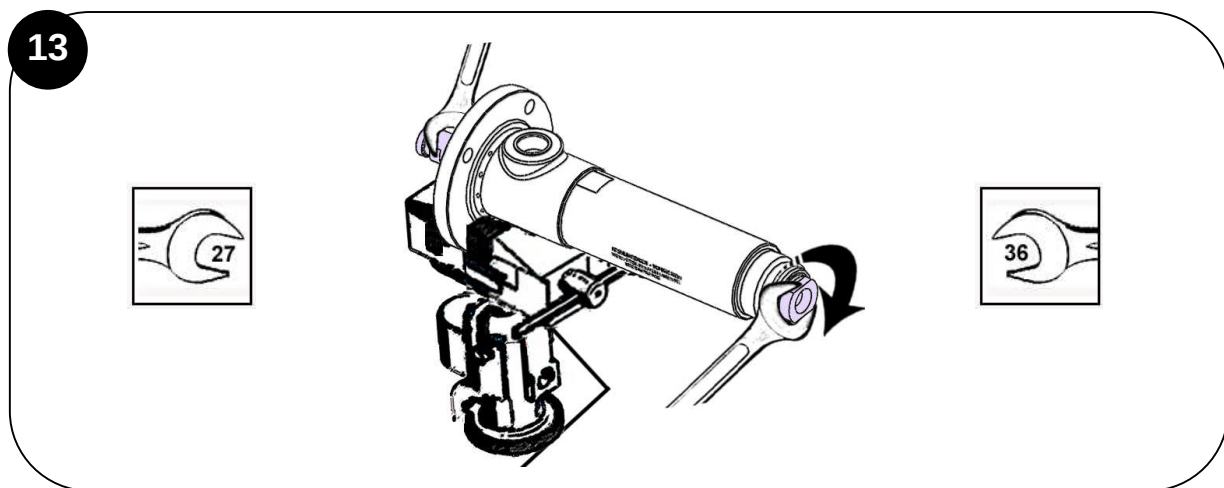
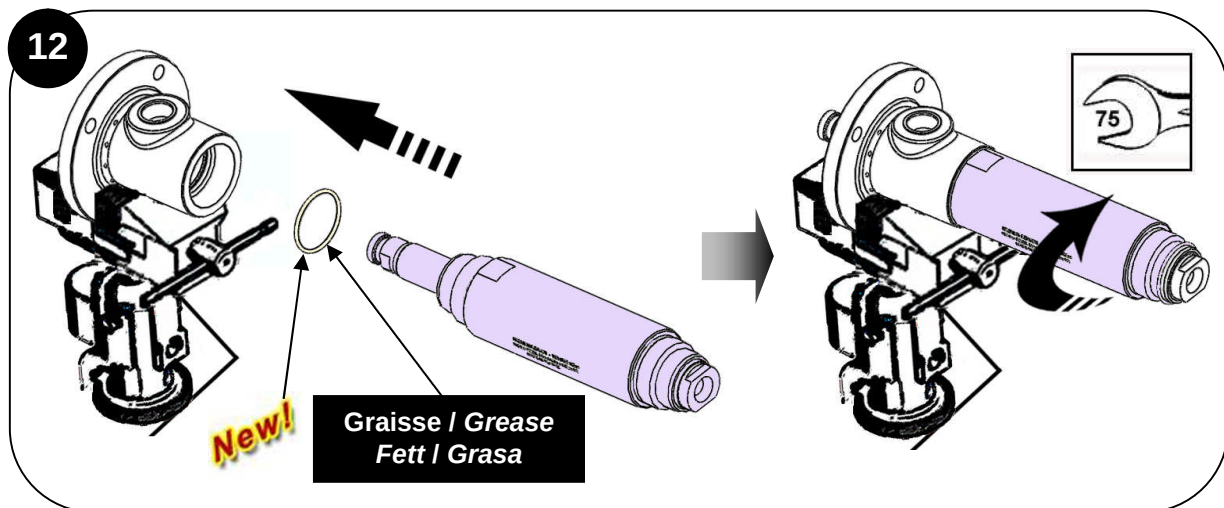
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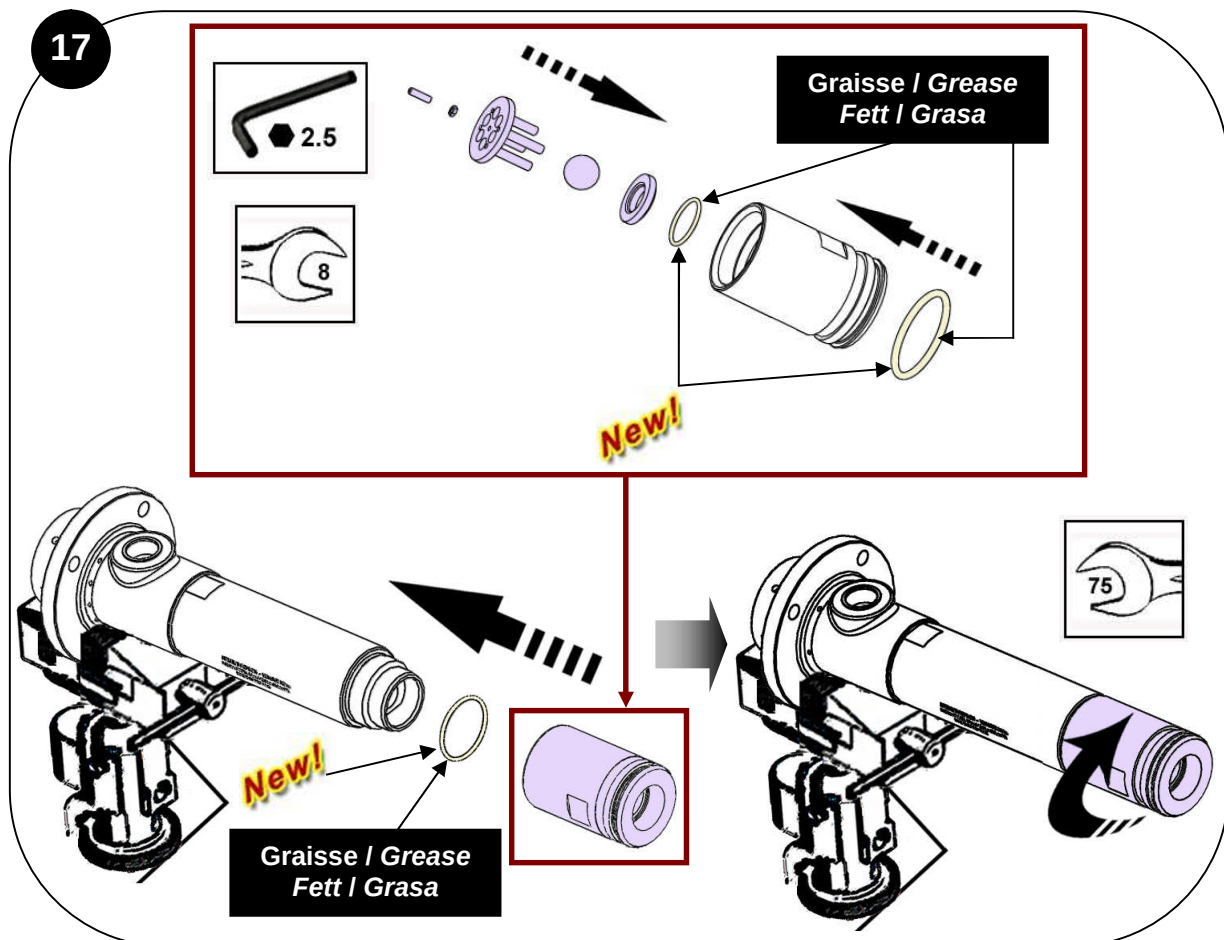
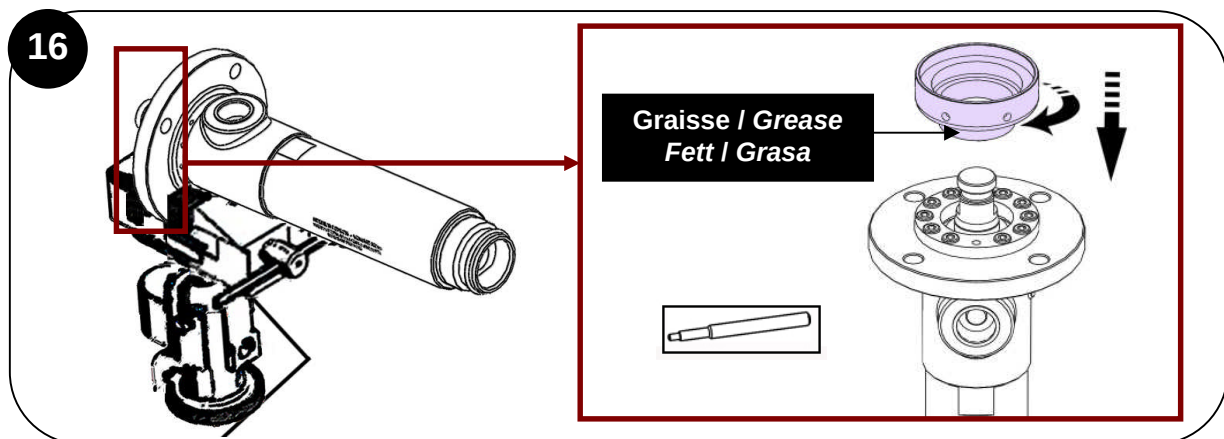
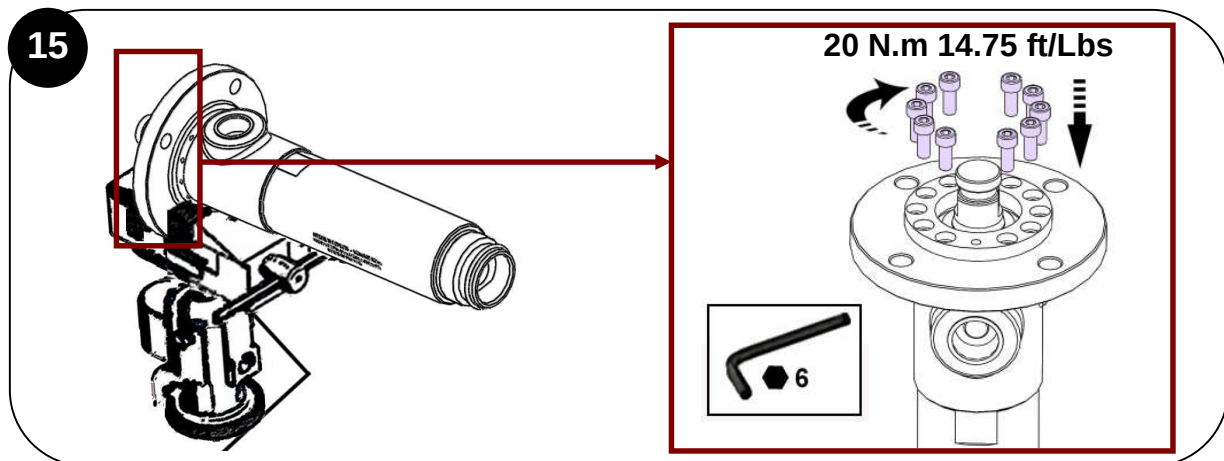


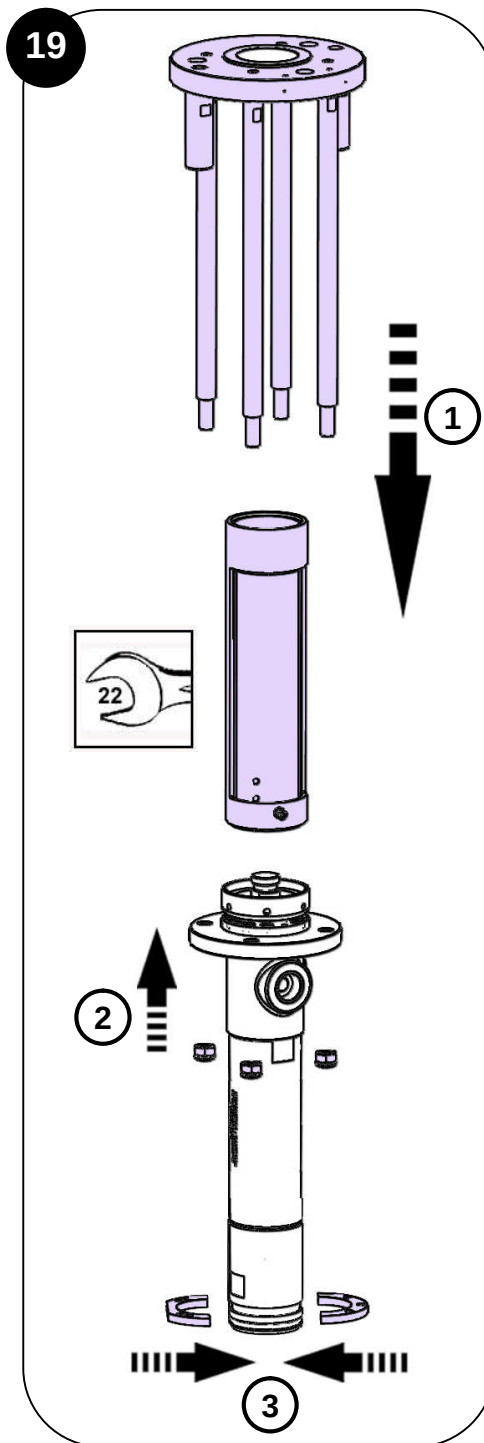
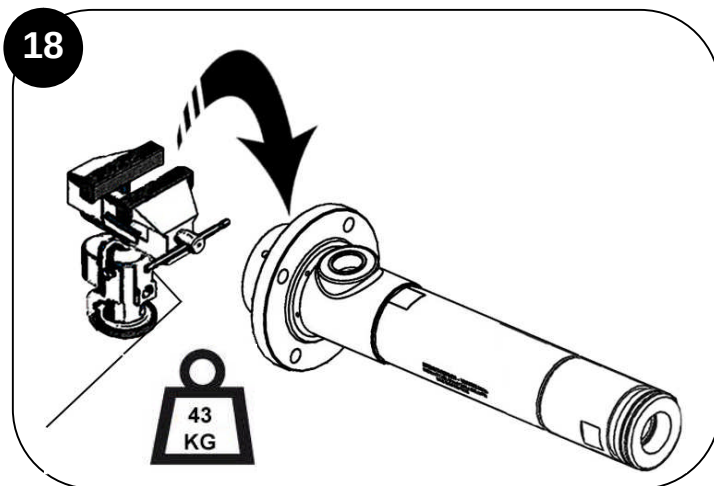
Graisse / Grease
Fett / Grasa

Graisse / Grease
Fett / Grasa
Anti-seize



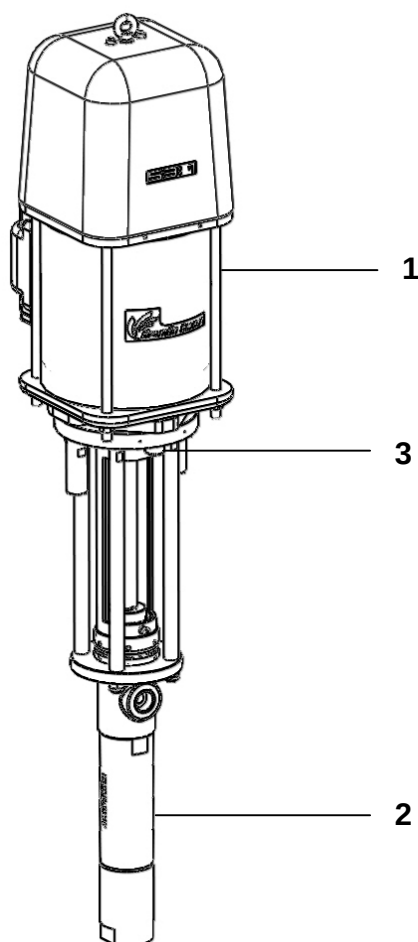






**POMPE A BILLE / BALL PUMP
KUGELPUMPE / BOMBA CON BOLA
EOS 53-C360
151 130 006**

NOTICE ORIGINALE
/ TRANSLATION OF THE ORIGINAL MANUAL
/ ÜBERSETZUNG DER ORIGINAL BEDIENUNGSANLEITUNG
/ TRADUCCIÓN DEL LIBRO ORIGINAL



Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
*1	105 272	Moteur 7200 (voir Doc. 578.179.110)	Air motor, model 7200 (refer to Doc. 578.179.110)	Luftmotor, Modell 7200 (siehe Dok. 578.179.110)	Motor, tipo 7200 (consultar Doc. 578.179.110)	1
*2	144 240 006	Hydraulique à bille EOS C360 (voir Doc. 578.177.110)	Ball fluid section, model EOS C360 (refer to Doc. 578.177.110)	Kugelhydraulikteil, Modell EOS C360 (siehe Dok. 578.177.110)	Hidraulica con bola, tipo EOS C360 (consultar Doc. 578.177.110)	1
3	88 960	Vis CHc M 18x55	Screw, CHc M 18x55	Schraube CHc M 18x55	Tornillo, CHc M 18x55	3
-	149 990 020	Flacon de lubrifiant T (125 ml)	T Lubricant (125 ml / 4.4 oz)	Lösemittel "T" (125 ml)	Recipiente de lubricante T (125 ml)	2

* Pièces de maintenance préconisées.

* Preceding the index number denotes a suggested spare part.

* Bezeichnete Teile sind empfohlene Ersatzteile.

* Piezas de mantenimiento preventivas.

N C : Non commercialisé.

N S : Denotes parts are not serviceable.

N S : Bezeichnete Teile gibt es nicht einzeln, sondern nur
komplett.

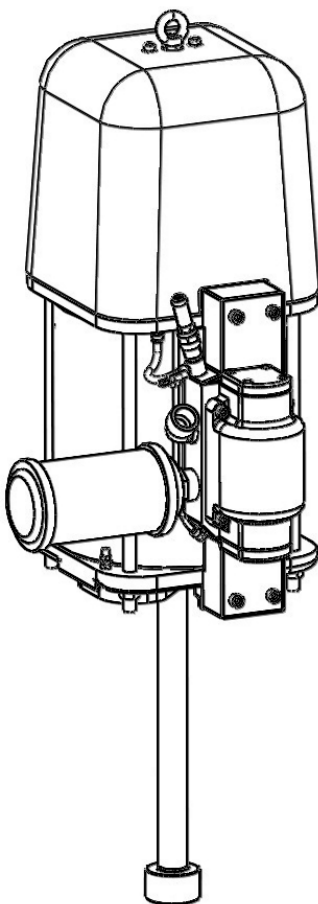
N S : no suministrado.

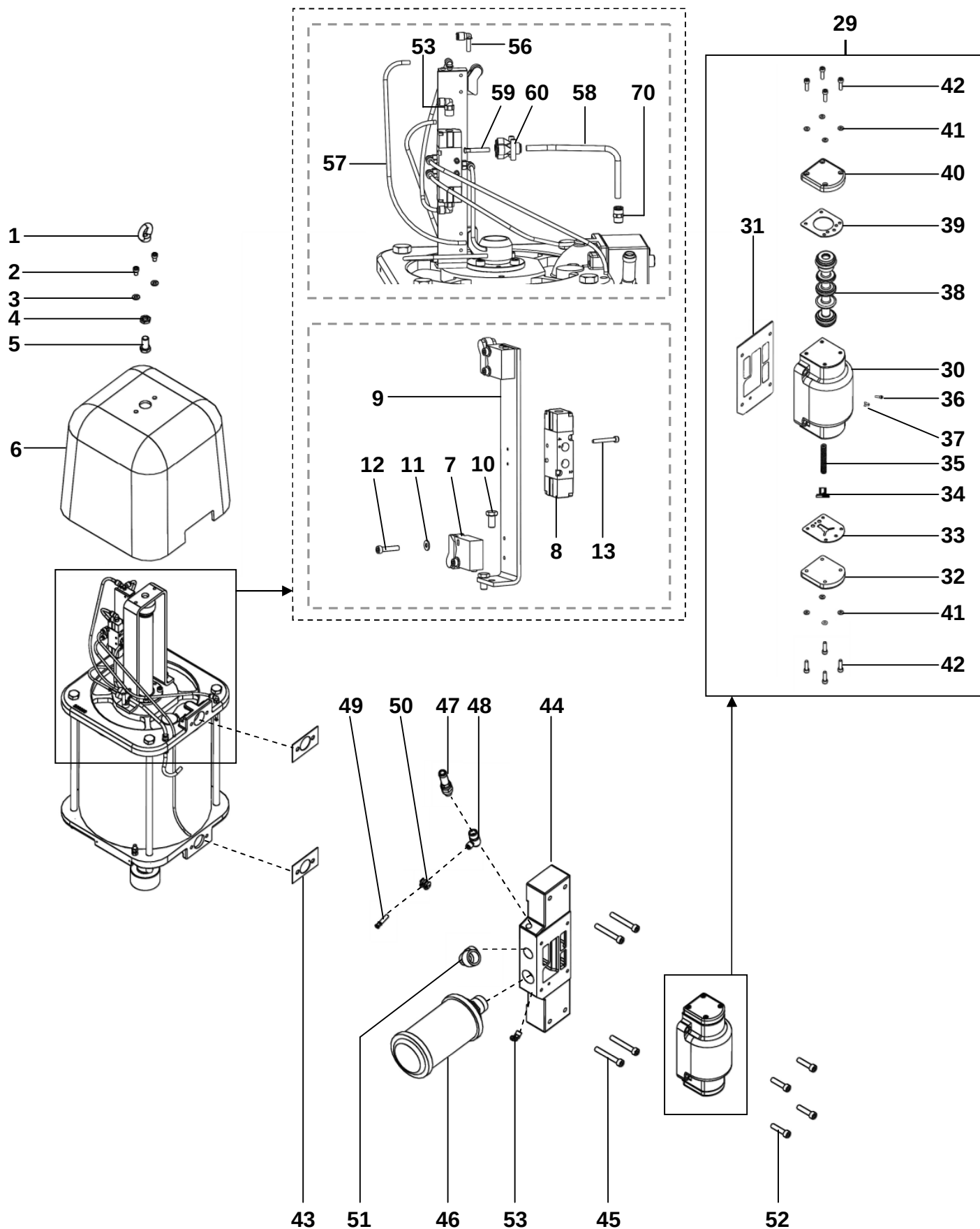
**MOTEUR A AIR / AIR MOTOR
LUFTMOTOR / MOTOR DE AIRE**

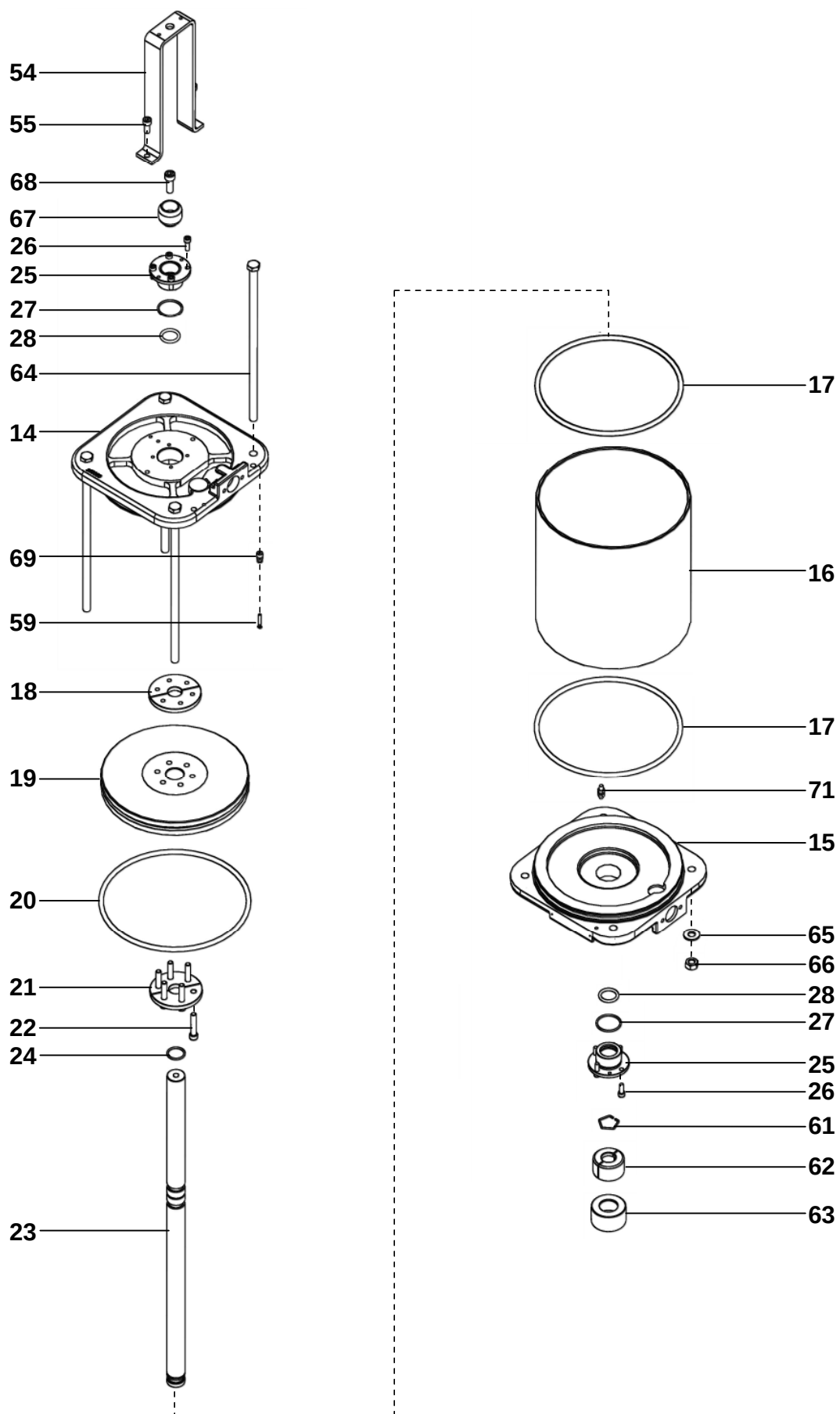
7200

105 272

NOTICE ORIGINALE
/ TRANSLATION OF THE ORIGINAL MANUAL
/ ÜBERSETZUNG DER ORIGINAL BEDIENUNGSANLEITUNG
/ TRADUCCIÓN DEL LIBRO ORIGINAL







Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
1	91 422	Anneau de levage	Hoisting ring	Ringsschraube	Anillo de sujeción	1
2	88 130	Vis CHc M 6x10	Screw, CHc M 6x10	Schraube CHc M 6x10	Tornillo, CHc M 6x10	2
3	963 040 016	Rondelle MU 6	Washer, MU 6	Scheibe MU 6	Arandela, MU 6	2
4	88 321	Ecrou HM 12	Nut, HM 12	Mutter, HM12	Tuerca, HM12	1
5	88 069	Vis HM 12x25	Screw, HM 12x25	Schraube HM 12x25	Tornillo, HM 12x25	1
6	209 362	Capot	Cover	Haube	Tapa	1
*7	151 800 002	Interrupteur (x 2)	Switch (x 2)	Schalter (x 2)	Interruptor (x 2)	1
*8	91 424	Distributeur 5/2 1/8"	Distributor, 5/2 1/8"	Verteiler 5/2 1/8"	Distribuidor, 5/2 1/8"	1
9	209 354	Equerre	Bracket	Winkel	Escuadra	1
10	933 011 170	Vis H M 6x12	Screw, H M 6x12	Schraube H M 6x12	Tornillo, H M 6x12	2
11	963 040 012	Rondelle MU 4	Washer, MU 4	Scheibe MU 4	Arandela, MU 4	4
12	933 151 273	Vis CHc M 4x20	Screw, CHc M 4x20	Schraube CHc M 4x20	Tornillo, CHc M 4x20	4
13	932 151 326	Vis CHc M 3x25	Screw, CHc M 3x25	Schraube CHc M 3x25	Tornillo, CHc M 3x25	2
14	209 360	Flasque supérieure	Upper flange	Deckelflansch	Brida superior	1
15	209 361	Flasque inférieure	Lower flange	Bodenflansch	Brida inferior	1
16	205 707	Cylindre	Cylinder	Zylinder	Cilindro	1
*17	84 194	Joint de flasque	Flange seal	Dichtungsflansch	Junta de brida	2
18	205 593	Contre-bride (2 parties)	Adapter (2 parts)	Kupplungsschalen (2 Teile)	Contra brida (2 partes)	1
19	209 363	Piston	Piston	Kolben	Pistón	1
*20	909 130 378	Joint de piston	Piston seal	Kolbendichtung	Junta de pistón	1
21	205 592	Bride d'arrêt (2 parties)	Stop flange (2 parts)	Stopscheibe (2 Teile)	Brida de ajuste (2 partes)	1
22	88 735	Vis CHc M 8x45	Screw, CHc M 8x45	Schraube CHc M 8x45	Tornillo, CHc M 8x45	6
23	205 704	Tige de piston	Piston rod	Kolbenstange	Eje de pistón	1
*24	909 420 225	Joint de tige de piston	Piston rod seal	Kolbenstangesdichtung	Junta de eje de pistón	1
25	205 606	Palier	Bearing	Lager	Palier	2
26	88 134	Vis CHc M 6x20	Screw, CHc M 6x20	Schraube CHc M 6x20	Tornillo, CHc M 6x20	8
*27	84 193	Joint de palier extérieur	Outside Bearing seal	Außen Lagersdichtung	Junta de palier exterior	2
*28	85 022	Joint de palier intérieur	Inside Bearing seal	Innen Lagersdichtung	Junta de palier interior	2
*29	146 320 092	Distributeur 4/2 1"	Distributor, 4/2 1"	Verteiler 4/2 1"	Distribuidor, 4/2 1"	1
30	NC / NS	▪ Corps du distributeur	▪ Distributor body	▪ Verteilerkörper	▪ Cuerpo de distribuidor	1
*31	NC / NS	▪ Joint d'embase	▪ Base seal	▪ Grundplattendichtung	▪ Junta de base	1
32	NC / NS	▪ Couvercle, côté ressort	▪ Cover, spring side	▪ Haube, Federseite	▪ Tapa, lado muelle	1
*33	NC / NS	▪ Joint latéral, côté ressort	▪ Side seal, spring side	▪ Seitlich Dichtung, Federseite	▪ Junta lateral, lado muelle	1
34	NC / NS	▪ Guide ressort	▪ Guide for spring	▪ Federführung	▪ Guía para muelle	1
*35	NC / NS	▪ Ressort	▪ Spring	▪ Feder	▪ Muelle	1
36	NC / NS	▪ Vis	▪ Screw	▪ Schraube	▪ Tornillo	1
37	NC / NS	▪ Joint	▪ Seal	▪ Dichtung	▪ Junta	1
*38	NC / NS	▪ Tiroir	▪ Valve	▪ Schieber	▪ Cajón	1

Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
*39	NC / NS	▪ Joint latéral, côté air	▪ Side seal, air side	▪ Seitlich Dichtung, Luftseite	▪ Junta lateral, lado aire	1
40	NC / NS	▪ Couvercle, côté air	▪ Cover, air side	▪ Haube, Luftseite	▪ Tapa, lado aire	1
41	NC / NS	▪ Rondelle	▪ Washer	▪ Scheibe	▪ Arandela	8
42	NC / NS	▪ Vis inox CHc M 5x16	▪ Stainless screw, CHc M 5x16	▪ Schraube aus Edelstahl CHc M 5x16	▪ Tornillo de inox, CHc M 5x16	8
*43	205 213	Joint d'embase	Base seal	Grundplattendichtung	Junta de base	2
44	209 365	Embase distributeur	Distributor base	Verteilergrundplatte	Base distribuidor	1
45	88 908	Vis inox CHc M 8x60	Stainless screw, CHc M 8x60	Schraube aus Edelstahl CHc M 8x60	Tornillo de inox, CHc M 8x60	4
*46	91 766	Silencieux 1"	Muffler 1"	Schalldämpfer 1"	Silenciador 1"	1
*47	903 080 401	Soupape de décharge	Discharge-valve	Sicherheitsventil	Válvula de seguridad	1
48	552 542	Raccord 1/4" G	Fitting, 1/4" G	Anschluss 1/4" G	Racor, 1/4" G	1
49	905 120 924	Bouchon pour tube	Tube plug	Verschlussstopfen für Rohr	Tapón de tubo	1
50	91 723	Clip Ø 6	Clip Ø 6	Clip Ø 6	Clip Ø 6	2
51	552 434	Coude MF 3/4" G	Elbow, MF 3/4" G	Winkelnippel AG 3/4" - IG 3/4" G	Codo, MH 3/4" G	1
52	88 514	Vis inox CHc M 8x35	Stainless screw, CHc M 8x35	Schraube aus Edelstahl CHc M 8x35	Tornillo de inox, CHc M 8x35	4
53	905 120 926	Coude M 1/8" G	Elbow, M 1/8" G	Winkelnippel M 1/8" G	Codo, M 1/8" G	7
54	209 355	Etrier	U-Bolt	Halterung	Tirante	1
55	88 151	Vis CHc M 8x20	Screw, CHc M 8x20	Schraube CHc M 8x20	Tornillo, CHc M 8x20	2
56	905 120 983	Coude MF T 2x4	Elbow, MF T 2x4	Winkelnippel AG/IG T 2x4	Codo, MH T 2x4	4
57	76 764	Tuyau PU 2,5x4 (lg. 3,10 m)	Hose PU 2,5x4 (lg. 3.10 m / 122.04")	Schlauch PU 2,5x4 (Länge : 3,10 m)	Tubería PU 2,5x4 (3,10 m de largo)	1
58	76 607	Tuyau PU 4x6 (lg. 0,20 m)	Hose PU 4x6 (lg. 0.20 m / 7.87")	Schlauch PU 4x6 (Länge : 0,20 m)	Tubería PU 4x6 (0,20 m de largo)	1
59	905 120 937	Bouchon pour tube	Tube plug	Verschlussstopfen für Rohr	Tapón de tubo	2
60	552 226	Raccord Y T 4x6	Fitting, Y T 4x6	Anschluss Y T 4x6	Racor, Y T 4x6	1
61	90 165	Jonc	Stop ring	Sicherungsring	Anillo de retención	1
62	205 211	Coquille (2 parties)	Bush (2 parts)	Kupplung (2 Teile)	Coquilla (2 partes)	1
63	205 212	Bague de fermeture	Closing ring	Hülse	Anillo de cierre	1
64	91 436	Tirant	Tie-rod	Stehbolzen	Tirante	4
65	963 040 023	Rondelle MU 12	Washer, MU 12	Scheibe MU 12	Arandela, MU 12	4
66	953 010 023	Ecrou H M 12	Nut, H M 12	Mutter, H M 12	Tuerca, H M 12	4
67	209 364	Came	Cam	Nocken	Leva	1
68	88 189	Vis CHc M 10x30	Screw, CHc M 10x30	Schraube CHc M 10x30	Tornillo, CHc M 10x30	1
69	905 120 907	Raccord droit 1/8"	Straight fitting, 1/8"	Gerader Nippel 1/8"	Racor recto, 1/8"	1
70	905 124 901	Raccord droit 1/8"	Straight fitting, 1/8"	Gerader Nippel 1/8"	Racor recto, 1/8"	2
71	055 680 006	Borne de mise à la terre équipée	Earth terminal assembly	Erdungsschiene montiert	Toma de tierra equipada	1

Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
*	105 273	Pochette de joints moteur (ind. 17 (x 2), 20, 24, 27 (x 2), 28 (x 2), 43 (x 2))	Seal kit air motor (ind. 17 (x 2), 20, 24, 27 (x 2), 28 (x 2), 43 (x 2))	Dichtungssatz des Luftmotors (beinhaltet Pos. 17 (x 2), 20, 24, 27 (x 2), 28 (x 2), 43 (x 2))	Bolsa de juntas motor (índ. 17 (x 2), 20, 24, 27 (x 2), 28 (x 2), 43 (x 2))	1
*	105 346	Pochette de maintenance distributeur 4/2 1" (ind. 31, 33, 35, 38, 39)	Servicing kit distributor 4/2 1" (ind. 31, 33, 35, 38, 39)	Reparatursatz des Luftverteilers 4/2 1" (beinhaltet Pos. 31, 33, 35, 38, 39)	Bolsa de reparación del distribuidor 4/2 1" (índ. 31, 33, 35, 38, 39)	1

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* Preceding the index number denotes a suggested spare part.

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* Piezas de mantenimiento preventivas.

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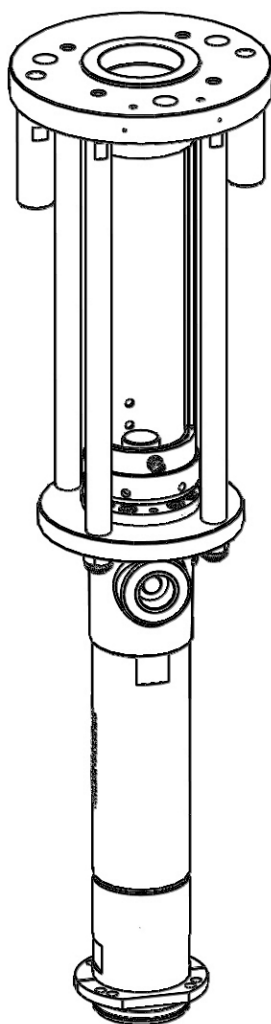
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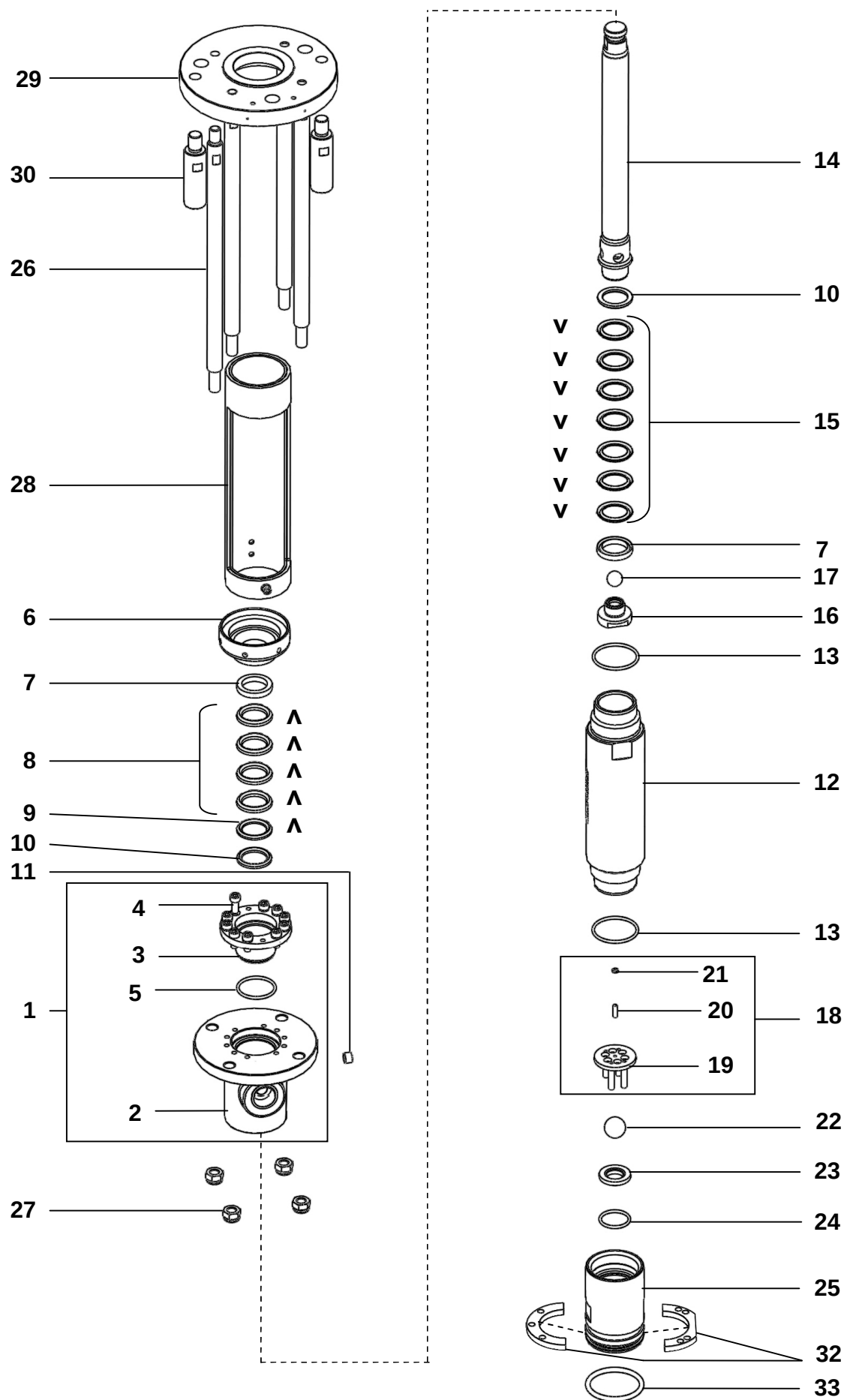
N S : no suministrado.

**HYDRAULIQUE A BILLE / BALL FLUID SECTION
KUGELHYDRAULIKTEIL / HIDRÁULICA CON BOLA
EOS C360**

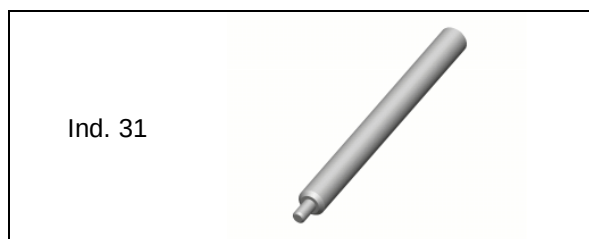
144 240 006

NOTICE ORIGINALE
/ TRANSLATION FROM THE ORIGINAL MANUAL
/ ÜBERSETZUNG DER ORIGINAL BETRIEBSANLEITUNG
/ TRADUCCIÓN DEL LIBRO ORIGINAL





Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
1	210 624	Corps de pompe avec cartouche	Body pump with cartridge	Pumpenkörper mit Packung	Cuerpo de bomba con cartucho	1
2	211 703	▪ Corps de pompe	▪ Body pump	▪ Pumpenkörper	▪ Cuerpo de bomba	1
3	211 702	▪ Cartouche, bride	▪ Cartridge, flange	▪ Packung, Flansch	▪ Cartucho, brida	1
4	930 151 279	▪ Vis CHc M 8x20	▪ Screw, CHc M 8x20	▪ Schraube CHc M 8x20	▪ Tornillo, CHc M 8x20	10
*5	909 420 271	▪ Joint FKM	▪ FKM seal	▪ Dichtung aus FKM	▪ Junta FKM	1
6	044 240 140	Cuve presse-garniture	Wetting-cup	Spülmitteltasse	Cubeta prensa-guarnición	1
7	209 651	Presse-joint femelle	Female washer	Stützring konkav	Prensa junta hembra	2
*8	84 411	Joint chevron PU	PU chevron seal	Packungsring PU	Junta chevrón PU	4
*9	209 656	Joint chevron PE	PE chevron seal	Packungsring PE	Junta chevrón PE	1
10	209 652	Presse-joint mâle	Male washer	Stützring konvex	Prensa junta macho	2
11	552 237	Bouchon de purge	Drain plug	Ablaßschraube	Tapón de vaciado	1
*12	144 240 120	Cylindre	Cylinder	Materialzylinder	Cilindro	1
*13	84 468	Joint FKM	FKM seal	Dichtung aus FKM	Junta FKM	2
*14	144 240 155	Piston	Piston	Kolben	Pistón	1
*15	209 658	Joint chevron PTFE G	PTFE G chevron seal	Packungsring PTFE G	Junta chevrón PTFE G	7
16	209 649	Siège de piston assemblé	Piston seat assembly	Kolbensitz komplett	Asiento de pistón equipado	1
17	87 320	Bille Ø 20 inox	Ball Ø 20, stainless steel	Kugel Ø 20 Edelstahl	Bola Ø 20 de inox	1
18	107 307	Guide de bille assemblé	Ball guide assembly	Kugelführung komplett	Guía de bola equipado	1
19	211 761	▪ Guide de bille	▪ Ball guide	▪ Kugelführung	▪ Guía de bola	1
20	934 171 335	▪ Vis Hc M 8x25	▪ Screw, Hc M 8x25	▪ Schraube Hc M 8x25	▪ Tornillo, Hc M 8x25	1
21	88 535	▪ Ecrou inox	▪ Nut, stainless steel	▪ Mutter Edelstahl	▪ Tuerca, inox	1
22	87 328	Bille Ø 28 inox	Ball Ø 28, stainless steel	Kugel Ø 28 Edelstahl	Bola Ø 28 de inox	1
23	209 612	Siège	Seat	Sitz	Asiento	1
*24	84 390	Joint PTFE	PTFE seal	Dichtung aus PTFE	Junta PTFE	1
25	044 240 015	Corps de clapet	Valve body	Saugventil	Cuerpo de válvula	1
26	044 240 170	Tirant	Tie-rod	Stehbolzen	Tirante	4
27	88 339	Ecrou M 14	Nut, M 14	Mutter, M 14	Tuerca, M 14	4
28	044 240 010	Carter de protection	Protection housing	Schützgehäuse	Cárter de protección	1
29	210 620	Plaque de liaison	Connecting plate	Verbindungsplatte	Placa de conexión	1
30	209 582	Pivot support	Support pin	Halterung Bolzen	Pivote soporte	2



Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
31	044 950 008	Clé	Wrench	Schlüssel	Llave	1
32	044 240 016	Bride (2 parties)	Flange (2 parts)	Flansch (2 Teile)	Brida (2 partes)	1
*33	909 130 540	Joint torique	O-Ring	O-Ring	Junta tórica	1
*	144 240 096	Pochette de joints (ind. 5, 8 (x4), 9, 13 (x2), 15 (x7), 24, 33)	Seal kit (ind. 5, 8 (x4), 9, 13 (x2), 15 (x7), 24, 33)	Dichtungssatz (beinhaltet Pos. 5, 8 (x4), 9, 13 (x2), 15 (x7), 24, 33)	Bolsa de juntas (índ. 5, 8 (x4), 9, 13 (x2), 15 (x7), 24, 33)	1

* Pièces de maintenance préconisées.

* Preceding the index number denotes a suggested spare part.

* Bezeichnete Teile sind empfohlene Ersatzteile.

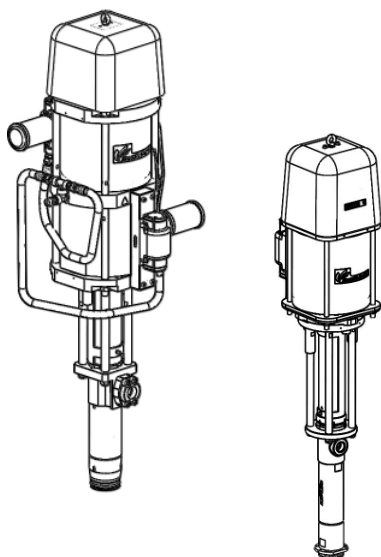
* Piezas de mantenimiento preventivas.

N C : Non commercialisé.

N S : Denotes parts are not serviceable.

N S : Bezeichnete Teile gibt es nicht einzeln, sondern nur komplett.

N S : no suministrado.



BALL PUMPS

EOS

PREVENTIVE MAINTENANCE

TRANSLATION FROM THE ORIGINAL MANUAL

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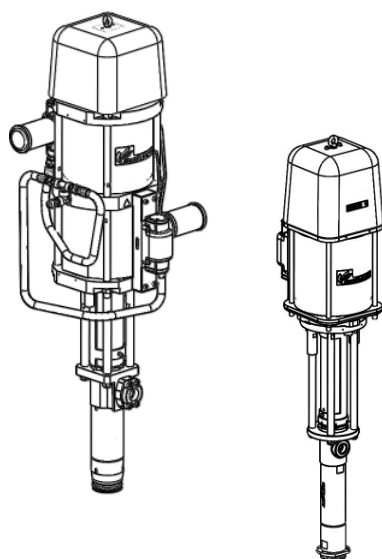
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OPERATION TO CARRY OUT	FREQUENCY					
	D	W	M	Q	H	Y
GENERAL						
Check earthings	X					
Check leakage from the fittings		X				
Check hoses			X			
Operate the valves			X			
PUMP						
Clean the pistons of the pumps (do not let the material dry)		X				
Check piston rod tightness		X				
Check there is no leak at the upper cartridge		X				
Check the tightness of the upper cartridge (pump stopped and without air on the motor ; depressurize the network)			X			
Caution : flush the pump for a long duration shutdown of the installation (more than two weeks)						
MOTOR						
Check the tightness of the piston rod					X	
Check if the control system is clean			X			
Check if the muffler(s) is clogged						X
Check that there is no air leakage						X
Check that air hoses are not damaged						X
Check that the connections between fittings and hoses are correct						X
Check the correct condition of the supply hoses (rubber, setting,...), regulators and gauges						X
Check the tightening of the components						X
Check the fixing of the cover						X
Check the correct operating of the safety valve(s)						X
D : daily W : weekly M : monthly Q : quarterly H : half-yearly Y : yearly						

OPERATION TO CARRY OUT	FREQUENCY					
	D	W	M	Q	H	Y
FLUID SECTION						
Check the tightness of the cup				X		
Check if there is lubricant in the cupel (keep the level halfway up)		X				
Disassemble the fluid section, clean the parts with the appropriate cleaning solvent, change the seals and the parts if necessary						X
Change the lubricant if the coloration is too important and change the seals of the upper flange if the problem persists			X			
Clean regularly the cup with lubricant after having drained the lubricant		X				
D : daily W : weekly M : monthly Q : quarterly H : half-yearly Y : yearly						

Note : Frequencies are given as a clue. They must be adapted by the maintenance service of the user for every installation according to the product, the working cadence and the working pressure.



BALL PUMPS

EOS

TROUBLESHOOTING GUIDE

TRANSLATION FROM THE ORIGINAL MANUAL

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The pump is manufactured under the ATEX agreement and can not be modified. KREMLIN REXSON will not be held responsible for any failure to comply with that instruction.

Guards (air motor cover, coupling shields, housings ...) have been designed for safe use of the equipment.

The manufacturer will not be held responsible for bodily injury or failure and / or damage to property due to removal or partial removal of the guards



CAUTION :

Before any intervention on the equipment, shut off the air supply and follow the general safety instructions. Open the drain or the gun to depressurize the gun. The ram must be in the low position.

TROUBLE	CAUSE	SOLUTION
Pump does not start or stops	The fluid is polymerized, hardened, dried in the pump.	Clean the pump; change parts if necessary.
	Broken part(s) in the pump	Remove, check and replace.
	Incorrect air supply	Check air pressure.
	Packings of fluid section are stuck	Clean or replace the packings.
	Frosting (motor)	Defrost and lubricate using oil.
	Outlet fluid hose is blocked	Change hose.
	Gun nozzle is clogged	Clean it.
The pump cycles continuously (drain valve closed)	No starting up	Check feeding pressure.
	Lack of material	Add material.
	Valves are blocked	Clean or replace.
The pump at stop, the piston carries on going down	Suction valve worn or incorrectly mounted	Check and replace parts.
	Plug or drain valve not tightened	
The pump at stop, the piston carries on going up	Head piston seals or upper valve worn or incorrectly mounted	Check and replace parts.
	Plug or drain valve not tightened	

TROUBLE	CAUSE	SOLUTION
The pump does not deliver enough pressure	Insufficient air pressure to the motor (valve insufficiently open, air leak,...)	Check; adjust.
	Insufficient air inlet on the motor or outlet clogged	Check filter and mounting.
	Hose not adapted	Replace hose.
	Cup or head piston seals worn	Check mounting and replace seals.
The pump operates but irregular flow	Air inlet in the suction circuit	Check mounting, state of the parts, tightening of parts and seals.
	Valves not tightened or clogged on the seats	Clean.
	Worn valves	Check the valves and replace them.
	Valves incorrectly mounted	Check the valves and mount them.
	Leakage during the exhaust	Check the seals of the power distributor(s); change them if necessary.
	Muffler(s) clogged up	Clean or change.
Important pressure drop at down stroke	Too important getting up of the ball	Displace the ball cage to reduce the getting up.
Fluid leakage through pump body	Wrong tightening of the cylinder	Check cylinder and seals ; replace if necessary.
	Seals missing or damaged	
The piston is going down quickly (simple effect working)	Wrong feeding of the pump	Check the use parameters of the accessories (pressure on follower plate or suction rod,...) ; they can be clogged or not adapted.
	Suction valve worn	Check and replace parts.
	A foreign product obstructs the suction valve	Clean and check.
	Piston seals incorrectly mounted or damaged	Check the mounting; change if necessary.
The piston goes up quickly	Drain valve worn or damaged	Check and replace parts.
	A foreign product obstructs the drain valve	Clean and check.
	Piston seals incorrectly mounted or damaged	Check the mounting; change if necessary.

TROUBLE	CAUSE	SOLUTION
The piston goes down very quickly until it reaches half stroke and restarts operating slowly	Wrong draining of the pump	Open the drain valve and close it after the outlet of the air bubbles.
	Leakage at the suction valve	Check the suction valve; replace it if necessary.
Abnormal operating after racing or too important temperature	Head piston or cup seals too tightened, damaged	Check mounting ; reduce pumping rate; replace parts if necessary.
	Product drum empty	Fill the drum; check the suction circuit and possible air leakage.
Leakage at the cup seals	Insufficient tightening of the shell	Tighten the shell.
	Bad mounting of the cup seals	Check the mounting.
	Damaged or worn seals	Replace them.
The cup seals get rapidly damaged	The pump operated empty	Abnormal use of the pump.
	No lubricant in the shell (pumped product drying on the piston rod)	Add some lubricant in the shell.
Material flow rate drop	Leakage during the exhaust	Check the piston seal(s); replace if necessary.
		Check the seals of the power distributor(s); replace them if necessary.
	Muffler(s) clogged up	Clean or change.
Important leakage during the exhaust	Power distributor(s) seals incorrectly mounted	Mount the seals correctly ; replace them if necessary.
	Defective Power distributor(s)	Check the operating; replace if necessary.
Motor piston(s) locked	Defective sensors	Adjust or replace the sensors.
	Defective control distributor	Check the operating; change if necessary.
	Defective power distributor(s)	Check the operating; change if necessary.
	Defective pneumatic circuit	Check the circuit.
The motor seems to operate but the fluid section does not deliver product	Defective coupling	Check coupling.



BALL FLUID SECTION EOS 53-C360

OPERATING AND START-UP

TRANSLATION OF THE ORIGINAL MANUAL

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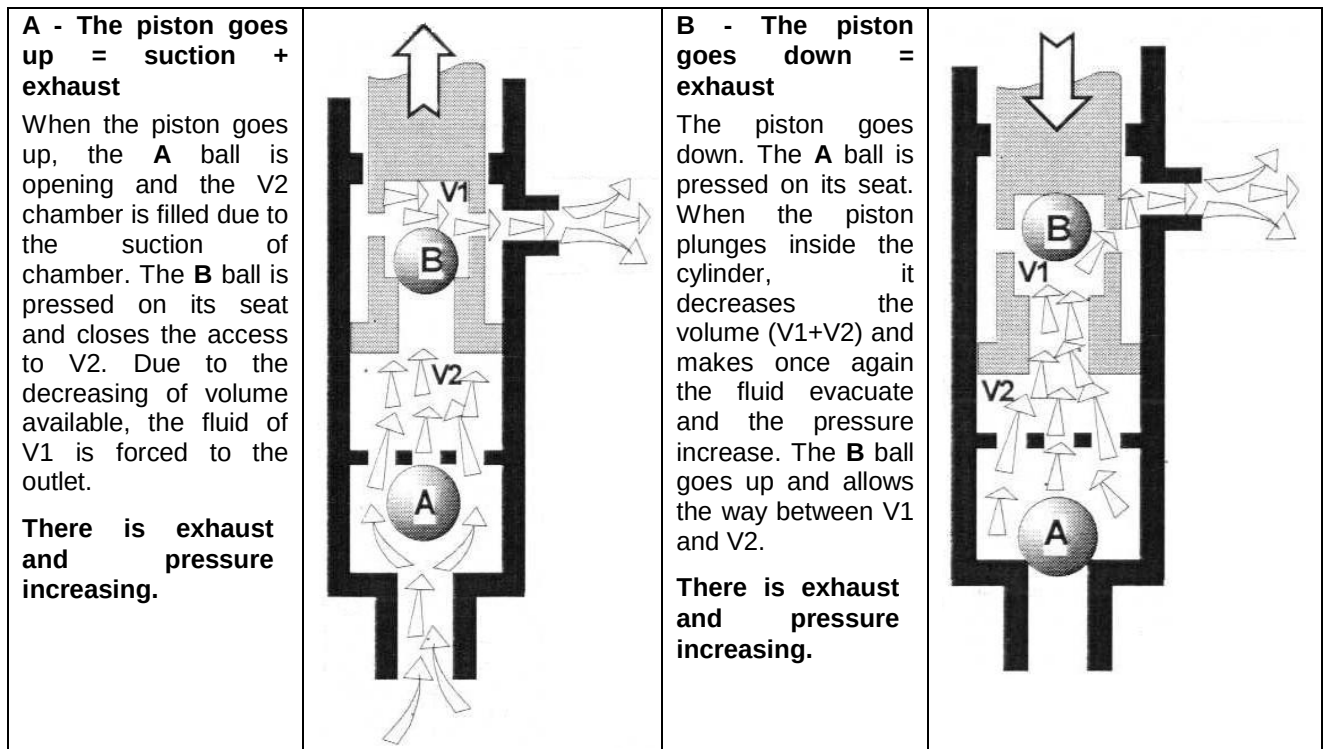
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1. OPERATING PRINCIPLE

The pneumatic motors are designed to be coupled with the recommended KREMLIN-REXSON fluid section to get the required ratio and flow rate.

The pneumatic motors with rectilinear alternative motions operate thanks to the compressed air supply. The reversing system is carried out by means of :

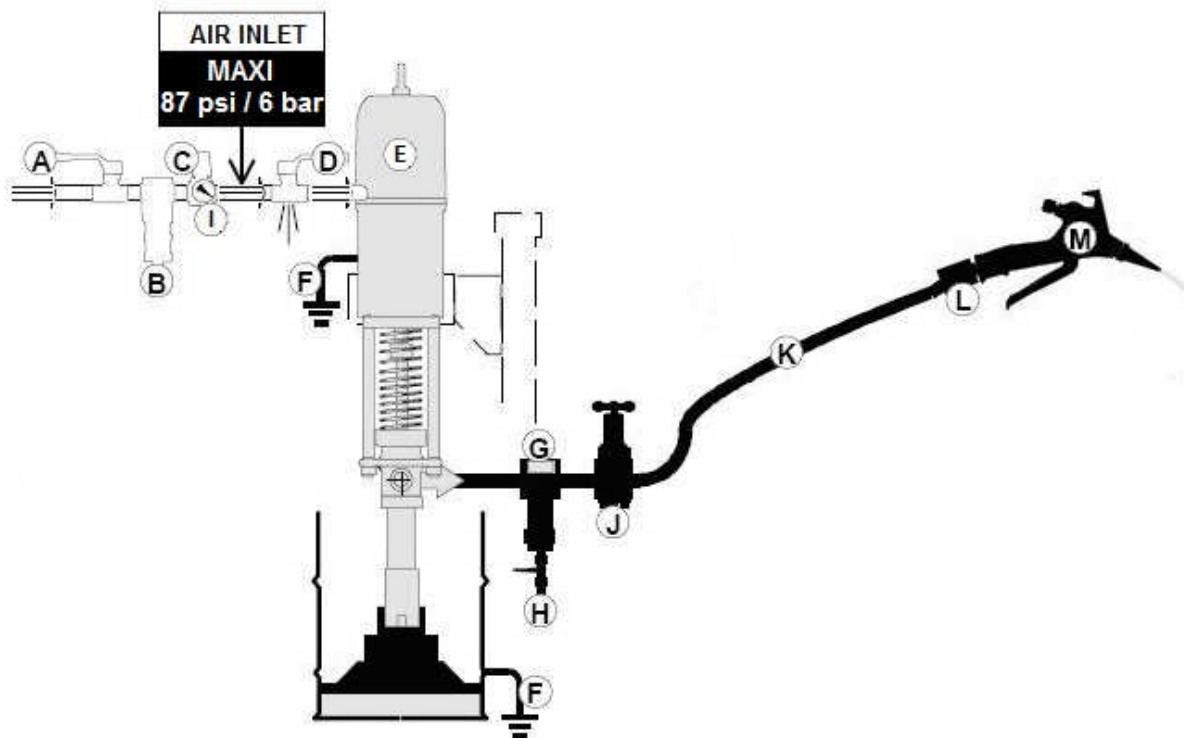
- a distributor, model 4/2,
- two sensors,
- a distributor, model 5/2.



WARNING!

The frictions due to the displacement of fluid inside the pumps and accessories, as well as the one created by the tightness seals, generate static electricity that may cause fire or explosion. This is why the pump must be grounded.

2. INSTALLATION



A	Air valve (main shut off valve)	G	Material filter
B	Filter or purifier	H	Fluid drain valve
C	Air regulator	J	Fluid regulator
I	Gauge	K	Hose (HP) with ground
D	Depressurize valve (air)	L	Swivel fitting
E	Pump	M	Spray gun
F	Grounding		

(For other installation, please contact KREMLIN REXSON).

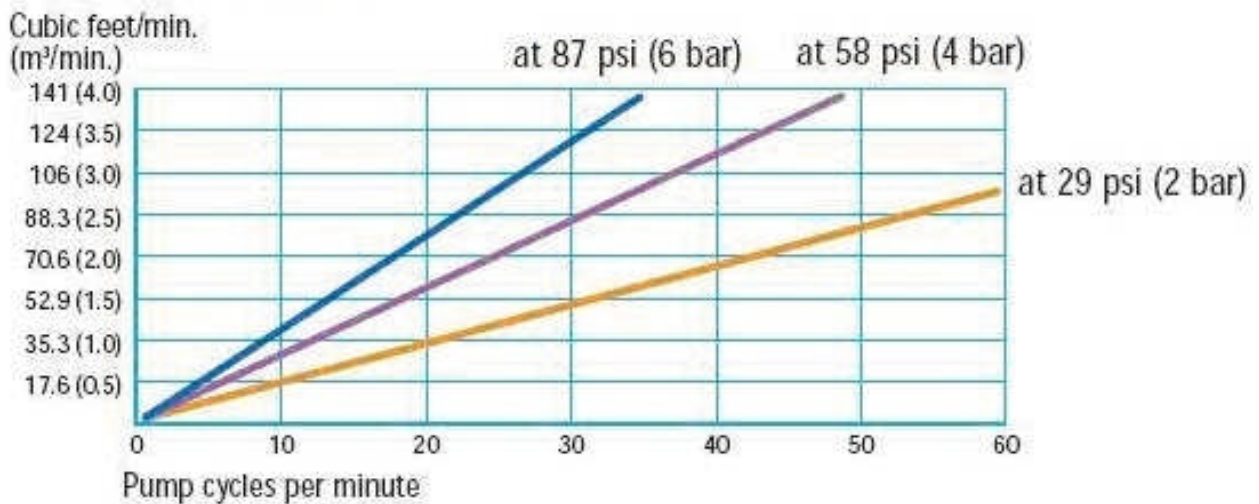
3. USE

■ ADJUSTMENT

The increase of the motor supply air pressure (via the air regulator) leads to an increase of the number of pump piston returns/mn (cycles) which leads to a flow rate increase and to an outlet pressure increase of the pumped material.

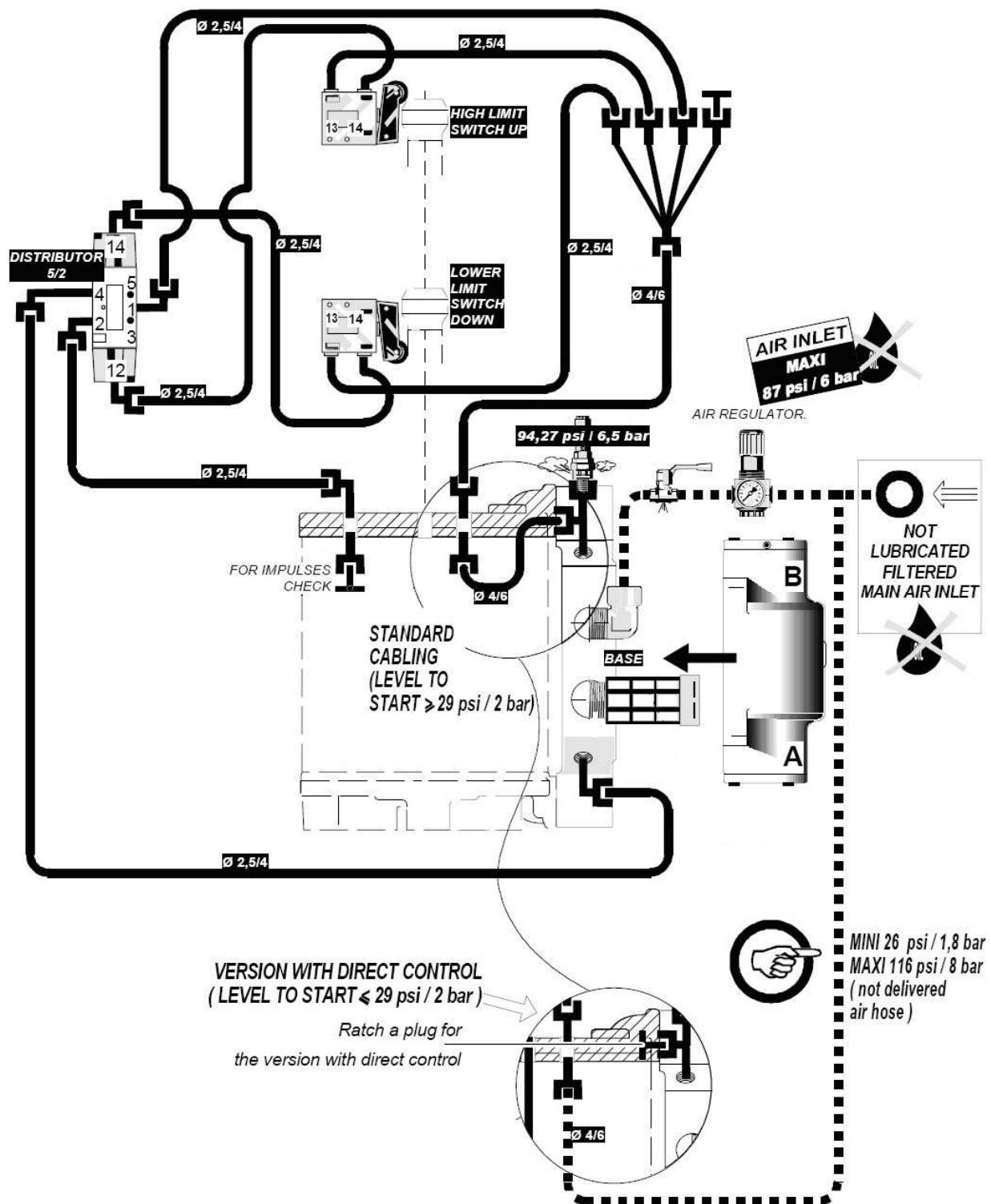
AIR CONSUMPTION OF THE MOTOR	
Pressure of the motor at 6 bar / 87 psi	
Version	daN
7200	2900

Pneumatic motor type 7200

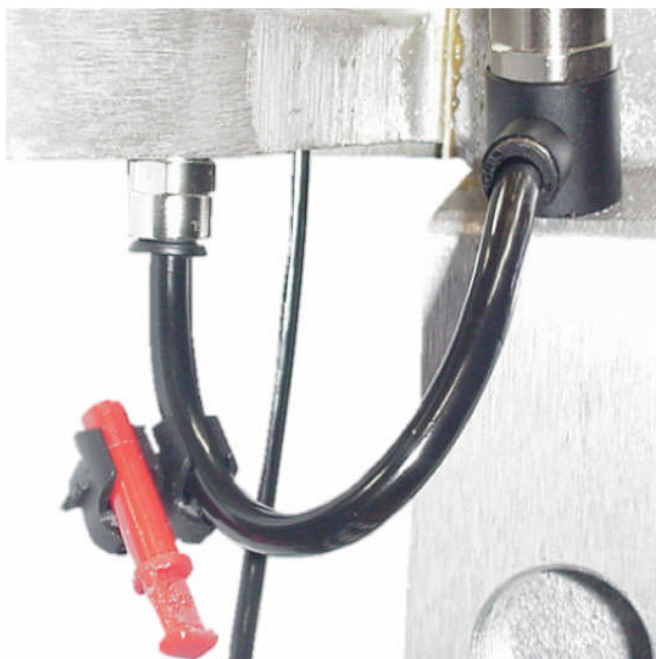


4. PNEUMATIC CABLING

Pneumatic diagram

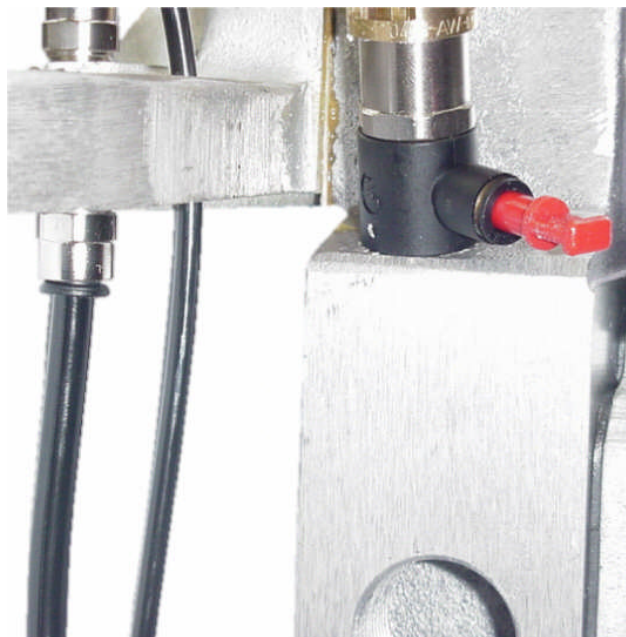


Standard cabling



The motors mounted in our plant are cabled in standard piloting. The threshold of the motor starting is about 1.5 bar / 21.7 psi.

Direct piloting



If the user wants to get a motor starting with a pressure of about 0.5 bar / 7.25 psi, the cabling can be modified in direct piloting.

5. START UP

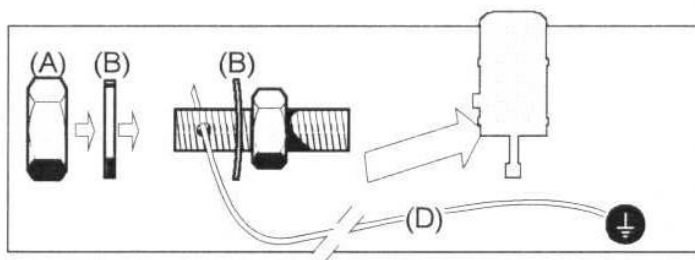
	Protective clothing (gloves, protective masks, glasses, hearing protective earplug, protective clothing,...) should be worn to comply with the recommendations. The working area must be correctly ventilated.
---	--

▪ BEFORE STARTING THE EQUIPMENT

Guards (air motor cover, coupling shields, housings ...) have been designed for safe use of the equipment.

The manufacturer will not be held responsible for bodily injury or failure and / or damage to property due to removal or partial removal of the guards

GROUNDING OF THE PUMP



Unscrew the lock-nut (A), introduce between the washers (B) the end of a ground wire (D) (minimum section : 1,5 mm²) in the hole of the terminal. Tighten the lock-nut. Connect the other end of the wire to a real "ground", according to the national rules.

A qualified electrician must check the ground continuity. If the continuity is not correct, check the terminal, the electric wire, the U bolt and the ground point. Never operate pump without revolving the trouble.

CONNECTION OF THE COMPRESSED AIR SUPPLY

For a correct operating and a long duration life of the motor, supply air must be filtered and not lubricated

- You must install a **pressure relief valve** after the air regulator and near to the inlet motor to follow the pressure relief instructions.
- The motor air supply hose should have an internal diameter of at least 19 mm / 0.75".
- The motors are tested prior to their sending. Nonetheless, before coupling the motor to the pump, you must operate the no load motor during a few minutes to a maximum pressure of 1 bar / 14.5 psi.

Then, comply with the instructions as follows :

- Couple the motor to the required fluid section
- Connect the main air supply to the motor
- Adjust the pressure by means of the air regulator

■ ADJUSTMENT

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Before starting the equipment, half fill the cup with T lubricant.

Follow these instructions :

- The main air valve (A) is closed
- Close the depressurize valve (D)
- Close the drain valve (H)
- Adjust the air regulator (C) on 'O'
- Adjust the fluid regulator (J) on 'O'
- Close the gun (M) (valve, gun,...)
- Open partially the drain valve (H), place a drum to get the drained material
- Open the air valve (A)
- Open the depressurize air valve (D)
- Adjust the air regulator (C) to operate slowly the pump
- Operate to get off air from the follower plate and the pump

- Close the drain valve (H)
- Open the fluid regulator (J)
- Trigger the gun (M) (valve,...) and let it on the drum (grounded) to get off air from hoses, gun, valve,...
- Material must flow continuously (without air bubble)
- The pump must stop when the gun is closed (M) (valve, gun,...)

Then adjust :

- air pressure to the regulator (C)
- fluid pressure to the regulator (J)

Depending upon :

- material viscosity
- gun nozzle diameter (M)
- material hoses' length and diameter (K)
- work

Nota : Before starting the work, check that the working range is correct. The cup nut must be slightly tightened. A too important tightening would damage the cup seals. A wrench is supplied to allow a correct tightening.

Tightening of the wetting cup

- Fill the cup with T lubricant
- Start the pump, then tighten the cup after 10 minutes, then one hour and then one day of operating
- If you notice a leakage, the cup must be tightened

Tightening instructions :

- Depressurize the motor (refer to pressure relief instructions)
- Depressurize the fluid circuit (refer to pressure relief instructions)
- Tighten the cup, clean it and fill it with T lubricant
- Close the pump drain circuits
- Open the motor air valve

■ START UP

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The pumps are tested in our workshop with lubricant.

Before starting up, you must flush the pump with the appropriate solvent.

6. SHUTDOWN AT THE END OF THE WORK

Unscrew the air regulator (s).

Leave the pump full of material.

If the pump is equipped with a follower plate, it must be in contact with the fluid to behave as a cover and prevent from the material drying.

When stopping the pump for a long time, after flushing it, leave it filled with solvent.

Depressurize the system.

▪ SHORT SHUTDOWN

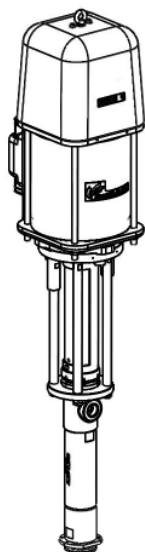
Flush the installation with the appropriate solvent to prevent from material drying inside the pump, hoses or accessories. The solvent must flow in a closed circuit until you get a sufficient flushing.

We advice you to stop the pump in 'low reversing' position to prevent from material drying on the piston rod.

- 1 - Decrease air pressure regulator (C) until you get 0 bar / 0 psi on the gauge (I)
- 2 - Trigger the gun to depressurize the system
- 3 - Unscrew the gun air regulator or disconnect the gun air inlet
- 4 - Remove the gun aircap and the nozzle (only when using an AIRMIX® gun) and soak them into solvent

▪ LONG SHUTDOWN

After flushing the installation, to prevent from corrosion, fill the pump with oil solvent to prevent air bubbles and neutralize the residual material.



BALL PUMP

EOS 53-C360

TECHNICAL FEATURES

TRANSLATION FROM THE ORIGINAL MANUAL

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1. DESCRIPTION

- Pneumatic pump.

Recommended for :

- The transfer, the pouring off or the spraying of different liquid or viscous fluids.

2. TECHNICAL FEATURES

Motor type 7200
Pump body type EOS C360
Theoretical pressure ratio 53/1
Weight (bare pump) 75 kg / 165 lbs

Air motor stroke	200 mm	8"
Delivery per cycle	360 cm ³	12.16 oz
Free delivery (liter/minute)	21.6	21.6
Fluid delivery (30 cycles)	10.8 l	10.8 l
Maximum air operating pressure	6 bar	87 psi
Maximum discharge pressure	318 bar	4611 psi
Weighted sound pressure (LAeq)	77.9 dBa*	77.9 dBa*
Maximum fluid temperature	80°C	176°F
Maximum ambient temperature	40°C	104°F

Wetted parts :

Cylinder	Stainless steel
Fluide flange cartridge	
Fluid flange	
Valve body	
Piston rod	
Head piston	
Ball cage	
Seat (suction)	
Ball (suction - Ø 28)	
Ball (drain - Ø 20)	
Seat (drain)	Carbide nickel-binder

Tightness packings : PU

Note : These data are given as a clue.

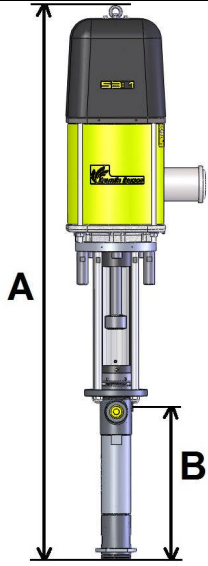
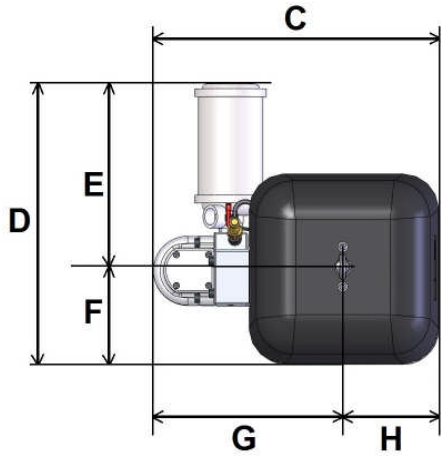
* Test conditions - Noise level :

- Test duration : 30 s,
- Motor air pressure : 6 bar / 87 psi,
- Material used : water,
- Flow rate : Pump adjusted at 20 cycles/minute.

■ FITTINGS

Air	Inlet	F 3/4"
Fluid	Inlet	F 48 x 150
	Outlet	Rc 1"

■ DIMENSIONS

									
Ind.		mm	"	Ind.	mm	"	Ind.	mm	"
A	Height	1490	58.7	C	383	15.1	D	431	17
	Stroke	200	8	E	256	10.1	F	131	5.2
B	Outlet fluid axis	402	15.9	G	230	9.1	H	131	5.2

■ DESCRIPTION OF THE LABEL MARKING

Marking according to the
ATEX and Machines
directives

 Kremlin Rexson STAINS FRANCE	POMPE / PUMP REF / SERIE	
	MAX.PRES.(BAR/PSI)	PROD
  II2G IIA T3	RAPPORT RATIO	
	AIR	

KREMLIN REXSON	Manufacturer brand
CE	European Conformity
 II 2 G	II : group II 2 : class 2 Surface equipment meant to an area in which there is an explosive atmosphere with an excessive mixture of air, gases and vapours, which can occasionally build up during normal operation. G : gas
IIA T3	IIA : Gas group for the equipment category T3 : Maximum surface temperature : 200°C / 392°F
POMPE / PUMP	Pump version
REF.	Pump part number
SERIE	Number given by KREMLIN REXSON. The 2 first numbers indicate the manufacturing year.
MAX. PRES. (BAR/PSI)	
PROD	Maximum material pressure
AIR	Maximum air pressure
RAPPORT / RATIO	Pump pressure ratio