

REPAIR – RÉPARATION – REPARACIONES – REPARO



309250 rev.M

Displacement Pump / Bomba de deslocamento / Pompe volumétrique / Bomba de desplazamiento



Important Safety Instructions

Read all warnings and instructions in this manual.
Save these instructions.

**Maximum Working Pressure / Pressão máxima de trabalho de /
Pression maximale de service / Presión máxima de operación:** 3300 psi (228 bar, 23 MPa)

Model 244195

Ultra Max 695, Series A
Ultimate Mx 695, Series A

Model 246428

Ultra 395/495/595

Ultimate NOVA™ 395
Ultimate Super NOVA™ 495/595
ST Max 395/495/595
Performance Max 395/495/595

Ultra Max 695, Series B
Ultra 695, Series A

Ultimate Mx 695, Series B
Ultimate 695, Series A

GMax 3400, Series A
LineLazer 3400, Series A

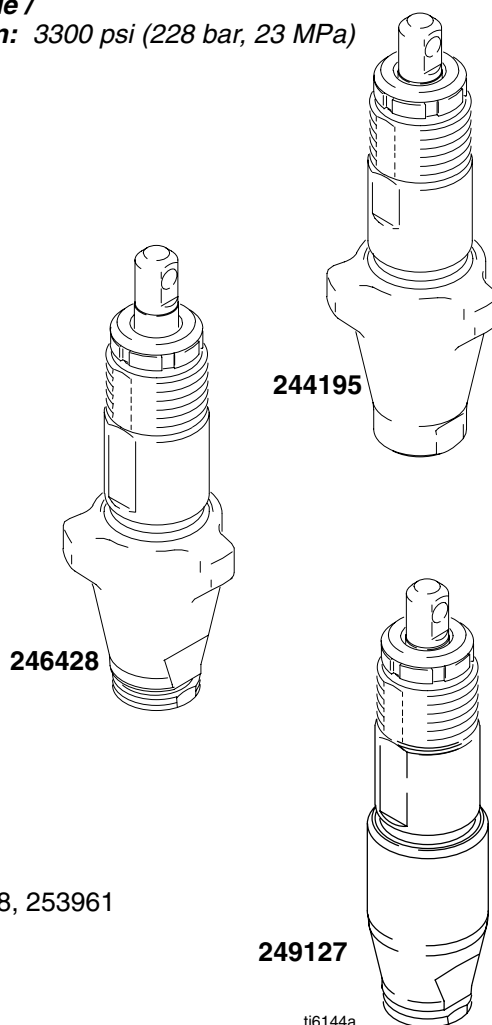
Ultra Max II 490/495/595, Series A
Ultimate MX II 490/495/595, Series A
ST Max II 490/495/595, Series A

390, Series A: Models 253958, 826084, 254968, 254969, 254998, 253961

Finish Pro 390/395, Series A

Model 249127

390, Series A: Models 248800, 248802, 248804, 248806, 248808, 248810, 826055
NOVA 390, Series A



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! WARNING



FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, in work area can ignite or explode. To help prevent fire and explosion:

- Use equipment only in well ventilated area.
- Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop clothes (potential static arc).
- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords or turn lights on or off when flammable fumes are present.
- Ground equipment and conductive objects in work area. Read Grounding instructions.
- If there is static sparking or you feel a shock, stop operating immediately. Do not use equipment until you identify and correct the problem.



SKIN INJECTION HAZARD

High pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**

- Do not point gun at anyone or any part of the body.
- Do not put your hand over the spray tip.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Do not spray without tip guard and trigger guard installed.
- Engage trigger lock when not spraying.
- Follow Pressure Relief Procedure in this manual, when you stop spraying and before cleaning, checking or servicing equipment.

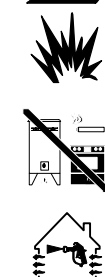
! MISE EN GARDE



DANGER D'INCENDIE ET D'EXPLOSION

Les vapeurs inflammables, vapeurs de solvant et de peinture par exemple, sur le lieu de travail peuvent s'enflammer ou exploser. Pour prévenir un incendie ou une explosion:

- N'utiliser l'Ⓜ
- Supprimer toutes les source de feu, telles que les veilleuses, cigarettes, lampes électriques portatives et bâches plastique (risque de décharge d'Ⓜ
- Veiller à débarrasser la zone de travail de tout résidu, comme les solvants, les chiffons et l'essence.
- Ne pas brancher ni débrancher de cordons d'alimentation électrique ni allumer ou éteindre la lumière en présence de vapeurs inflammables.
- Raccorder le matériel et les objets conducteurs se trouvant dans la zone de travail à la terre.
- Si l'on remarque la moindre étincelle d'électricité statique ou si l'on ressent une décharge électrique, arrêter le travail immédia.

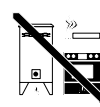


DANGERS D'INJECTION CUTANÉE

Le produit s'échappant à haute pression du pistolet, d'une fuite sur le flexible ou d'un composant défectueux risque de transpercer la peau. La blessure peut avoir l'aspect d'une simple coupure, mais il s'agit en fait d'une blessure sérieuse pouvant entraîner une amputation. **Consulter immédiatement un médecin en vue d'Ⓜ**

- Ne pas diriger le pistolet sur quelqu'un ou une partie quelconque du corps.
- Ne pas mettre la main devant la buse de projection.
- Ne jamais colmater ou dévier les fuites avec la main, le corps, un gant ou un chiffon.
- Ne pas pulvériser sans garde-buse ni sous-garde.
- Verrouiller la gâchette à chaque arrêt de la pulvérisation.
- Observer la Procédure de décompression de ce manuel à chaque arrêt de la pulvérisation et avant tout nettoyage, contrôle ou entretien du matériel.

! ADVERTENCIA

   	PELIGRO DE INCENDIOS Y EXPLOSIONES Vapores inflamables, como los vapores de disolvente o de pintura en la zona de trabajo pueden incendiarse o explotar. Para evitar un incendio o explosión: • Utilice el equipo únicamente en áreas bien ventiladas. • Elimine toda fuente de ignición, tales como las luces piloto, los cigarrillos, las linternas eléctricas y las cubiertas de plástico (arcos estáticos potenciales). • Mantenga limpia la zona de trabajo, sin disolventes, trapos o gasolina. • No enchufe ni desenchufe cables de alimentación ni apague ni encienda las luces en el área de pulverización. • Conecte a tierra el equipo y los objetos conductores eléctricamente de la zona de trabajo. • Si se aprecia la formación de electricidad estática durante el uso de este equipo, deje de trabajar inmediatamente. No utilice el sistema hasta haber identificado y corregido el problema.
	PELIGRO DE INYECCIÓN A TRAVÉS DE LA PIEL El fluido a alta presión procedente de la pistola, fugas de la manguera o componentes rotos penetrarán en la piel. La inyección del líquido puede tener la apariencia de un simple corte, pero se trata de una herida grave que puede conducir a la amputación. Consiga inmediatamente tratamiento quirúrgico. • No coloque la mano o los dedos sobre la boquilla de pulverización, ni apunte la pistola hacia nadie ni ninguna parte del cuerpo. • No coloque la mano sobre la boquilla de pulverización. • No intente bloquear ni desviar posibles fugas con la mano, el cuerpo, los guantes o con un trapo. • Nunca pulverice sin la protección de la boquilla y el seguro del gatillo. • Enganche el seguro del gatillo cuando no esté pulverizando. • Siga el Procedimiento de descompresión de este manual, cuando deje de pulverizar y antes de limpiar, revisar o reparar el equipo.

! ADVERTÊNCIA

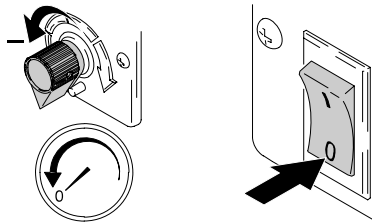
   	PERIGO DE INCÊNDIO E EXPLOÇÃO Os vapores inflamáveis na área de trabalho, tais como os provenientes de solventes e tintas, podem inflamar-se ou explodir. Para ajudar a evitar incêndios e explosões: • Utilize o equipamento apenas em áreas bem ventiladas. • Elimine todas as fontes de ignição, como, por exemplo, luzes piloto, cigarros, luzes elétricas portáteis e plásticos de proteção (potencial arco estático). • Mantenha a área de trabalho sem detritos, incluindo solvente, panos e gasolina. • Não ligue nem desligue cabos de alimentação ou luzes na presença de vapores inflamáveis. • Ligue o equipamento e os objectos condutores presentes na área de trabalho à terra. • Se ocorrerem faíscas de estática ou se sentir um choque eléctrico, interrompa a utilização imediatamente. Não utilize o equipamento até identificar e eliminar o problema.
	PERIGO DE INJEÇÃO ATRAVÉS DA PELE O produto a alta pressão proveniente da pistola, fugas nos tubos flexíveis ou componentes danificados poderá provocar lesões na pele. As lesões podem ter o aspecto de um simples corte, porém, constituem ferimentos graves capazes de conduzir à amputação. Obtenha tratamento médico imediato. • Não aponte a pistola a ninguém nem a nenhuma parte do corpo. • Não coloque as mãos sobre o bico. • Não tente interromper ou desviar fugas com a mão, o corpo, uma luva ou um pano. • Não comece a pintar sem que o protector do bico e o dispositivo de segurança do gatilho estejam instalados. • Engate o dispositivo de segurança do gatilho quando não estiver a pintar. • Siga o Procedimento de Descompressão neste manual, quando parar de pintar e antes de dar início aos procedimentos de limpeza, verificação ou manutenção. INJECTION HAZARD

PRESSURE RELIEF / ALÍVIO DE PRESSÃO DÉCHARGE DE PRESSION / ALIVIO DE LA PRESIÓN

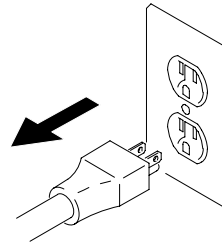


Follow 1–5 when you stop spraying.
Siga os passos de 1–5 quando parar de pulverizar.
Suivre les étapes 1 à 5 lorsqu'on arrête de pulvériser.
Siga los pasos 1–5 cuando deje de usar el pulverizador.

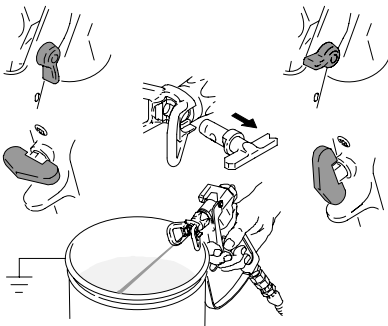
1



2



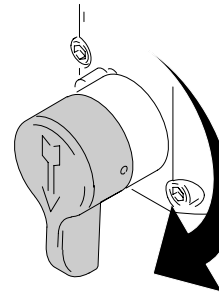
3



4

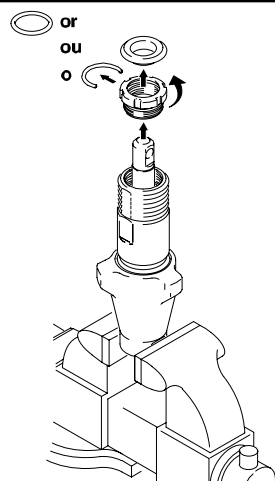


5



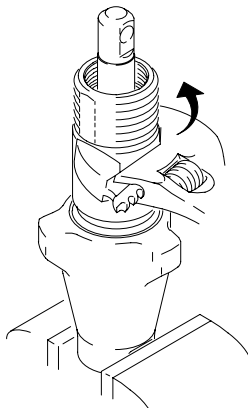
DISASSEMBLE / DESMONTAGEM DÉMONTAGE / DESARMAR

1



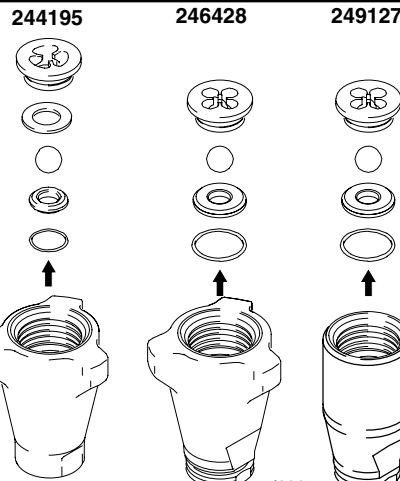
ti2776a

2



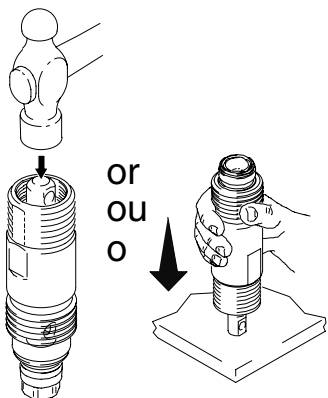
TI779A

3



ti6145a

4



7571a

TI0781A

COMPONENT DAMAGE HAZARD

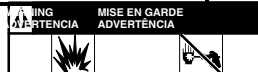
PERIGO DE DANOS
NOS COMPONENTES
RISQUE D'ENDOMMAGEMENT
DE COMPOSANTS
PELIGRO DE DAÑO A COMPONENTES

Do not clean piston valve threads. Cleaning piston valve threads could destroy thread locking patch and cause piston valve to come loose during operation, causing pump damage and possible serious injury.

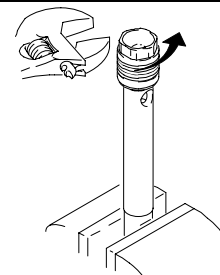
No limpe os fios da válvula de pistões. Al limpar os fios da válvula de pistões poderia destruir a placa de travadura de fios e causar que a válvula de pistões se solte durante o funcionamento e se produzam danos na bomba e possíveis lesões sérias.

No pas nettoyer les filets du clapet piston. Un tel nettoyage pourrait détruire l'enduit frein des filets et causer la dislocation du clapet piston en fonctionnement, entraînant ainsi l'endommagement de la pompe et des blessures graves.

No limpie los hilos de la válvula de pistones. Al limpiar los hilos de la válvula de pistones podría destruir la placa de trabadura de hilos y causar que la válvula de pistones se suelte durante el funcionamiento y se produzcan daños en la bomba y posibles lesiones serias.



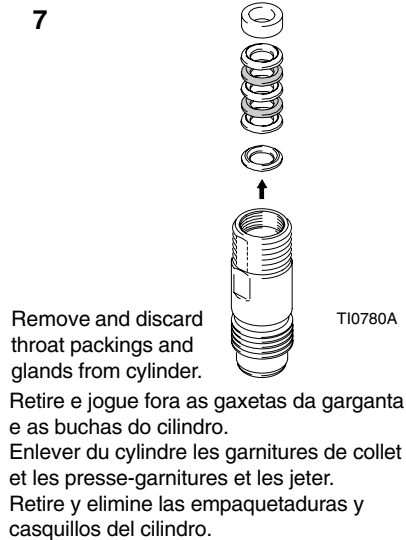
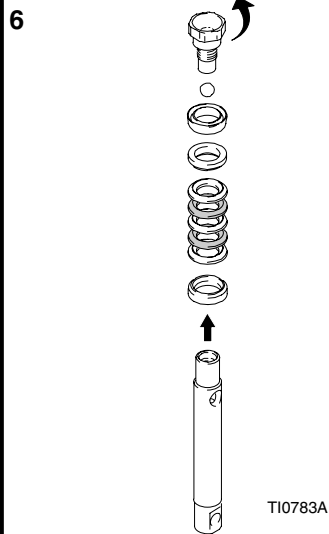
5



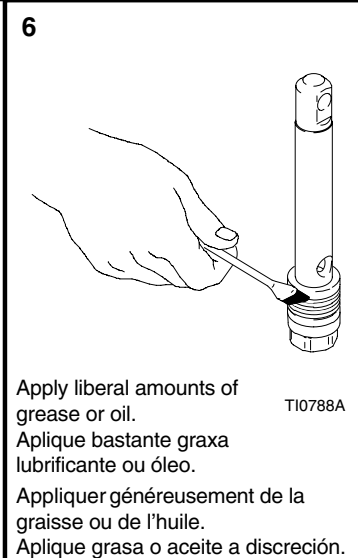
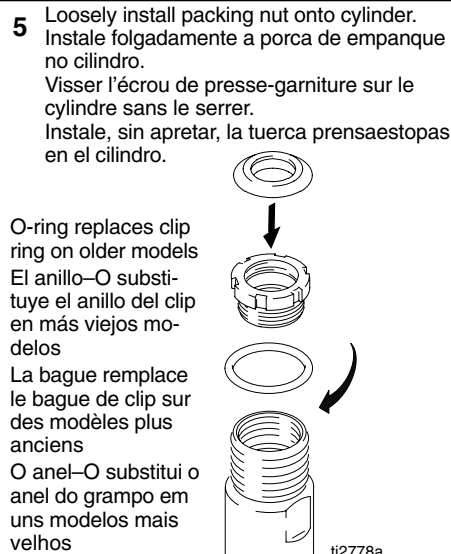
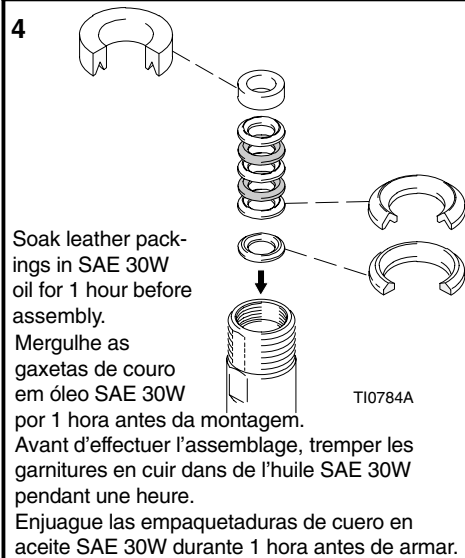
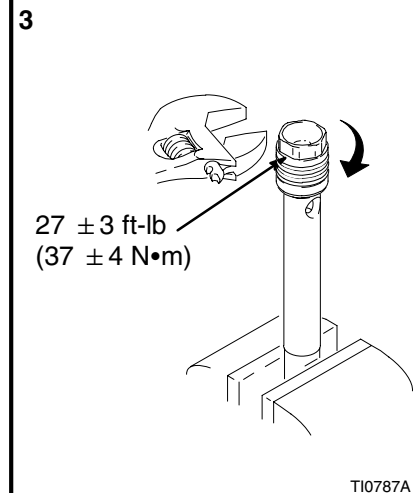
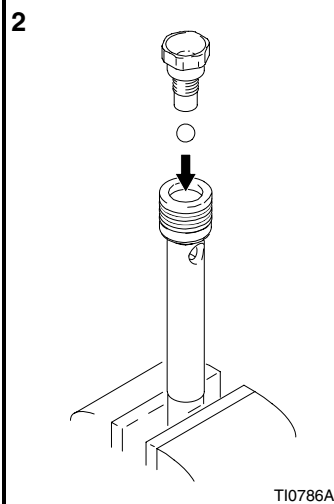
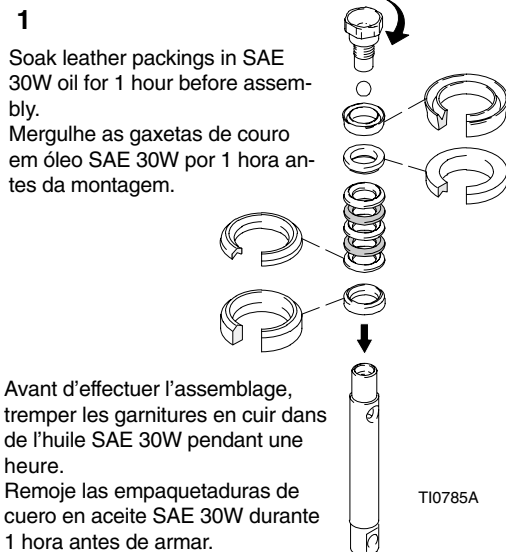
TI0782A

Do not remove thread locking patch. On fifth assembly apply Loctite® to threads. Não retire o embutimento de travar roscas. Na quinta unidade, aplique Loctite® nas roscas. Ne pas enlever l'enduit frein des filets. Au cinquième assemblage, appliquer du Loctite® sur les filets. No quite la placa de trabadura de hilos. Aplique Loctite® a los hilos en el quinto conjunto.

DISASSEMBLE / DESMONTAGEM DÉMONTAGE / DESARMAR

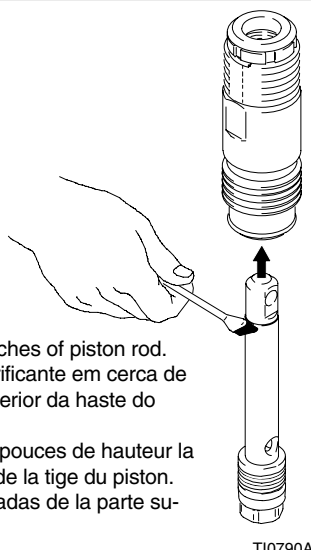


ASSEMBLE / MONTAGEM ASSEMBLAGE / ARMAR



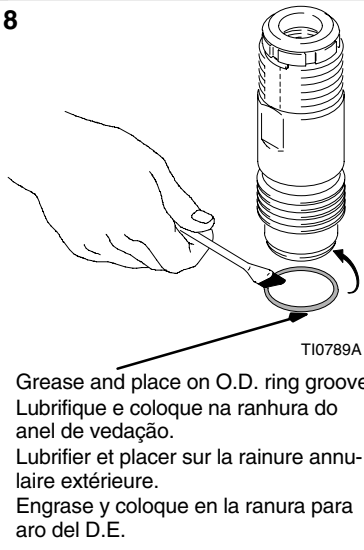
ASSEMBLE / MONTAGEM ASSEMBLAGE / ARMAR

7



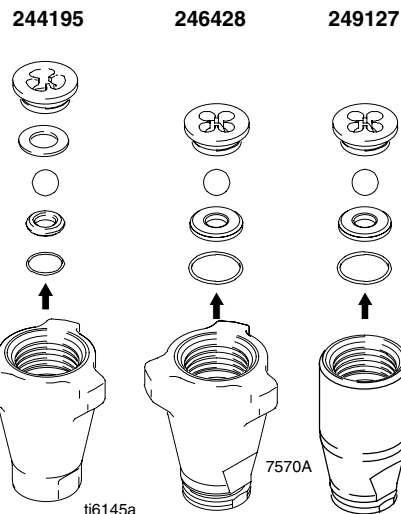
Grease top two inches of piston rod.
Aplique graxa lubrificante em cerca de 5 cm da parte superior da haste do êmbolo.
Lubrifier sur deux pouces de hauteur la partie supérieure de la tige du piston.
Engrase dos pulgadas de la parte superior del pistón.

8

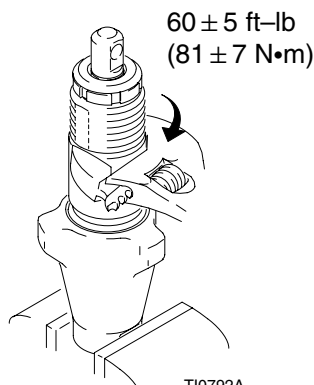


Grease and place on O.D. ring groove
Lubrifique e coloque na ranhura do anel de vedação.
Lubrifier et placer sur la rainure annulaire extérieure.
Engrase y coloque en la ranura para aro del D.E.

9

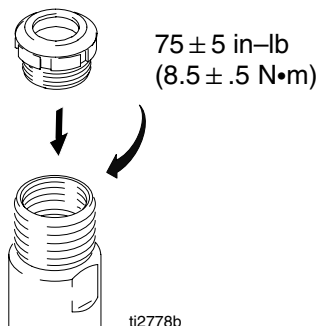


10



60 ± 5 ft-lb
(81 ± 7 N•m)

11

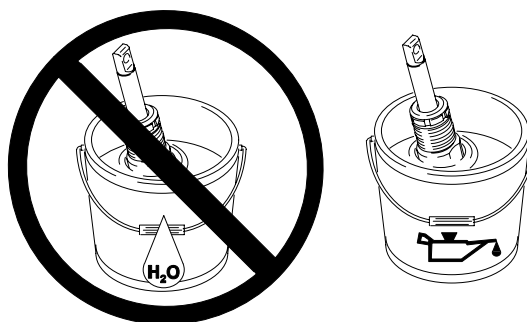


75 ± 5 in-lb
(8.5 ± .5 N•m)

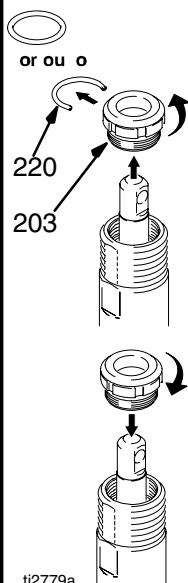
* Or additional 1/2 turn from hand tight
* O vuelta adicional del 1/2 de la mano firmemente
* Ou tour additionnel de 1/2 de main fortement
* Ou volta adicional de 1/2 da mão firmemente

12

Storage / Armazenamento
Stockage / Almacenamiento



THROAT PACKING ADJUSTMENT/AJUSTE DAS GAXETAS DA GARGANTA/AJUSTEMENT DE LA GARNITURE DE COLLET/AJUSTE DE LA EMPAQUETADURA DE LA GARGANTA



Remove throat nut spacer (220) when pump packings begin to leak after much use. Then tighten packing nut down until leakage stops or lessens. This allows approximately 100 gallons of additional operation before a repacking is required.

O-ring (220) replaces clip ring on older models. Packing nut can be tightened without O-ring removal.

Retire o espaçador da porca da garganta (220) assim que as gaxetas da bomba começarem a vazar após uma utilização intensiva. Depois, aperte a porca de vedação até que o vazamento pare ou diminua. Isto permitirá uma utilização adicional de cerca de 378 litros antes que seja necessária uma substituição.

El anillo-O (220) substituye el anillo del clip en más viejos modelos. La tuerca del embalaje se puede apretar sin retiro del anillo-O.

Enlever la cale (220) d'écrou de collet lorsqu'on décèle une fuite par la garniture de la pompe après usage intense. Serrer ensuite le presse-garniture jusqu'à l'arrêt ou la diminution de la fuite. Ceci permettra la pulvérisation sur 378 litres additionnelles avant de devoir remplacer la garniture.

La bague (220) remplace la bague de clip sur des modèles plus anciens. L'écrou d'emballage peut être serré sans déplacement de bague.

Retire el espaciador de la tuerca de la garganta (220) cuando haya filtraciones por las empaquetaduras después del uso excesivo. Luego apriete la tuerca de la empaquetadura hasta que la filtración se detenga o se reduzca. Ello permite aproximadamente 378 litros adicionales de funcionamiento antes de que sea necesario cambiar las empaquetaduras.

O anel-O (220) substitui o anel do grampo em uns modelos mais velhos. Aporca da embalagem pode ser apertada sem remoção do anel-O.

Parts / Peças / Pièces / Piezas – 244195

Ref No.	Part No.	Description	Qty.
201	249125	ROD, displacement, includes 212	1
202	180656	BUTTON, plug	1
203	193047	NUT, packing	1
204*	176757	GLAND, female, throat	1
205*	176754	GLAND, male, throat	1
206	243176	CYLINDER, pump	1
207*	105444	BALL, sst, 0.3125 in.	1
208*	195129	GLAND, male, piston	1
209*	180073	GLAND, female, piston	1
211*	196759	GUIDE, piston	1
212	239937	VALVE, piston (included with 201)	1
213	196896	GUIDE, ball	1
214†	195134	SPACER, ball guide	1
215†	243190	KIT, seat, carbide includes 214, 217 and 218	1
216	196755	VALVE, intake housing	1
217*†	195136	PACKING, o-ring (0.725 in. OD)	1
218*†	105445	BALL, sst, 0.5000 in.	1
219*	108526	O-RING, PTFE	1
220*	117459	O-RING (replaces clip ring on older models)	1
221*	176755	V-PACKING, leather, throat	2
222*	192710	V-PACKING, throat, V-Max™ UHMWPE, blue	3
223*	176749	V-PACKING, leather, piston	2
224*	192712	V-PACKING, piston V-Max™ UHMWPE, blue	3

* Included in Kit 244194 (kit includes (2) 103413 intake tube o-rings)

† Included in Kit 243190

* Incluído no Kit 244194 (incluindo (2) 103413 intake tube o-rings)

† Incluído no Kit 243190

* Inclus dans la trousse 244194 (inclus (2) 103413 intake tube o-rings)

† Inclus dans la trousse 243190

* Incluida en Kit 244194 (incluida (2) 103413 intake tube o-rings)

† También incluida en Kit 243190

Technical Data

/Dados Técnicos/Fiche technique/Datos técnicos

Maximum working pressure / Pressão máxima de trabalho de

Pression maximale de service /

Presión máxima de operación
3300 psi (228 bar, 23 MPa)
3 300 lb/po² (228 bar, 23 MPa)

Fluid inlet size / Dimensões da entrada de líquido

Dia. de l'orifice d'entrée / Tamanho de la entrada de fluido . . 3/4 npt(m)

Fluid outlet size / Dimensões da saída de líquido

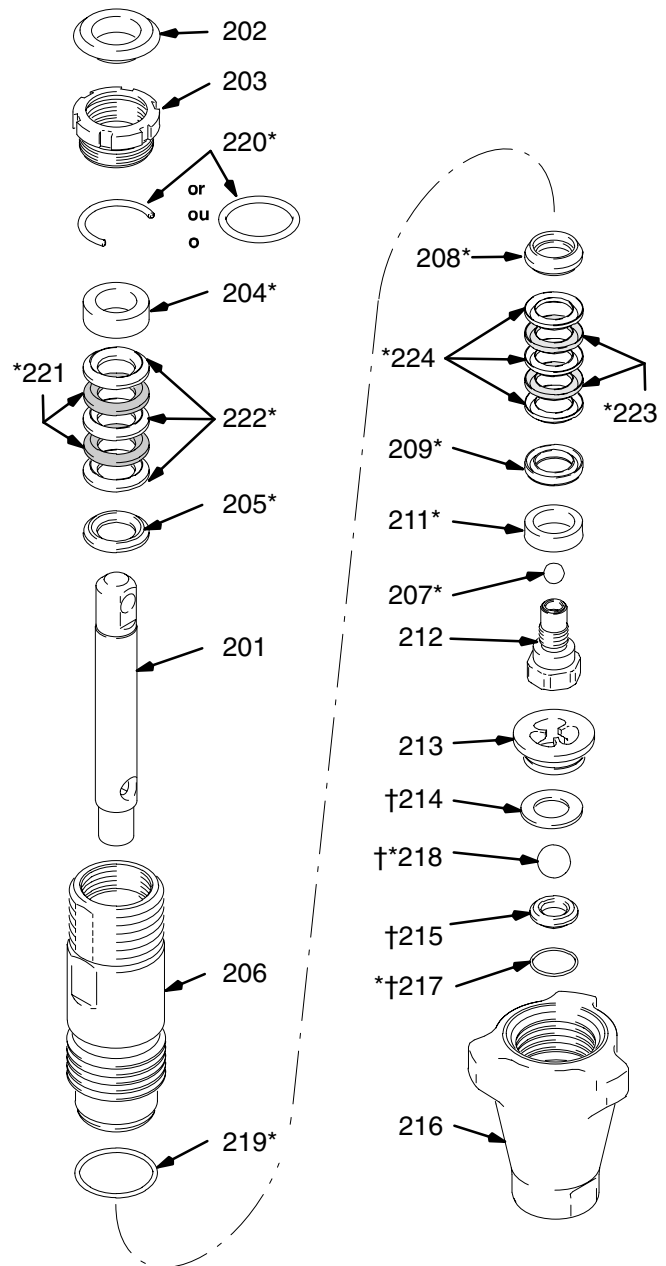
Dia. de l'orifice de sortie / Tamanho de la salida de fluido . . . 1/4 npt(f)

Wetted parts stainless steel, PTFE, leather,
nylon, zinc-plated carbon steel, tungsten carbide,
chrome plating, UHMWPE, Acetal, polyethylene, nylon

Peças lubrificadas aço inoxidável, PTFE, couro,
nylon, aço carbono zincado, carboneto de
tungstênio, cromagem, UHMWPE, Acetal, polietileno

Pièces en contact avec du liquide acier inoxydable et en
PTFE, cuir, nylon, acier carbone zingué,
carbure de tungstène, plaquage au chrome,
UHMWPE, Acetal, polyéthylène

Piezas húmedas acero inoxidable, PTFE,
cuero, nilón, acero al carbono enchapado en cinc,
carburo de tungsteno, enchape en cromo,
UHMWPE, Aceta, polietileno



7567B

Parts / Peças / Pièces / Piezas – 246428

Ref No.	Part No.	Description	Qty.
201	249125	ROD, displacement, includes 212	1
202	180656	BUTTON, plug	1
203	193047	NUT, packing	1
204*	176757	GLAND, female, throat	1
205*	176754	GLAND, male, throat	1
206	243176	CYLINDER, pump	1
207*	105444	BALL, sst, 0.3125 in.	1
208*	195129	GLAND, male, piston	1
209*	180073	GLAND, female, piston	1
211*	196759	GUIDE, piston	1
212	239937	VALVE, piston (included with 201)	1
213	15C011	GUIDE, ball	1
215†	246429	KIT, seat, carbide includes 213, 217 and 218	1
216	15B611	VALVE, intake housing	1
217*	15B112	PACKING, o-ring (0.941 in. OD)	1
218*†	105445	BALL, sst, 0.5000 in.	1
219*	108526	O-RING, PTFE	1
220*	117459	O-RING	1
221*	176755	V-PACKING, leather, throat	2
222*	192710	V-PACKING, throat, V-Max™ UHMWPE, blue	3
223*	176749	V-PACKING, leather, piston	2
224*	192712	V-PACKING, piston V-Max™ UHMWPE, blue	3
225	162453	NIPPLE, 1/4 npsm x 1/4 npt	1
226	119789	FITTING, elbow, street, 45°, 1/4 npt	1

* Also included in Kit 244194

† Also included in Kit 246429

* Também incluído no Kit 244194

† Também incluído no Kit 246429

* Inclus aussi dans la trousse 244194

† Inclus aussi dans la trousse 246429

* También incluida en Kit 244194

† También incluida en Kit 246429

Technical Data

/Dados Técnicos/Fiche technique/Datos técnicos

Maximum working pressure / Pressão máxima de trabalho de

Pression maximale de service /

Presión máxima de operación 3300 psi (228 bar, 23 MPa)
3 300 lb/po² (228 bar, 23 MPa)

Fluid inlet size / Dimensões da entrada de líquido

Dia. de l'orifice d'entrée / Tamaño de la entrada de fluido . . 3/4 npt(m)

Fluid outlet size / Dimensões da saída de líquido

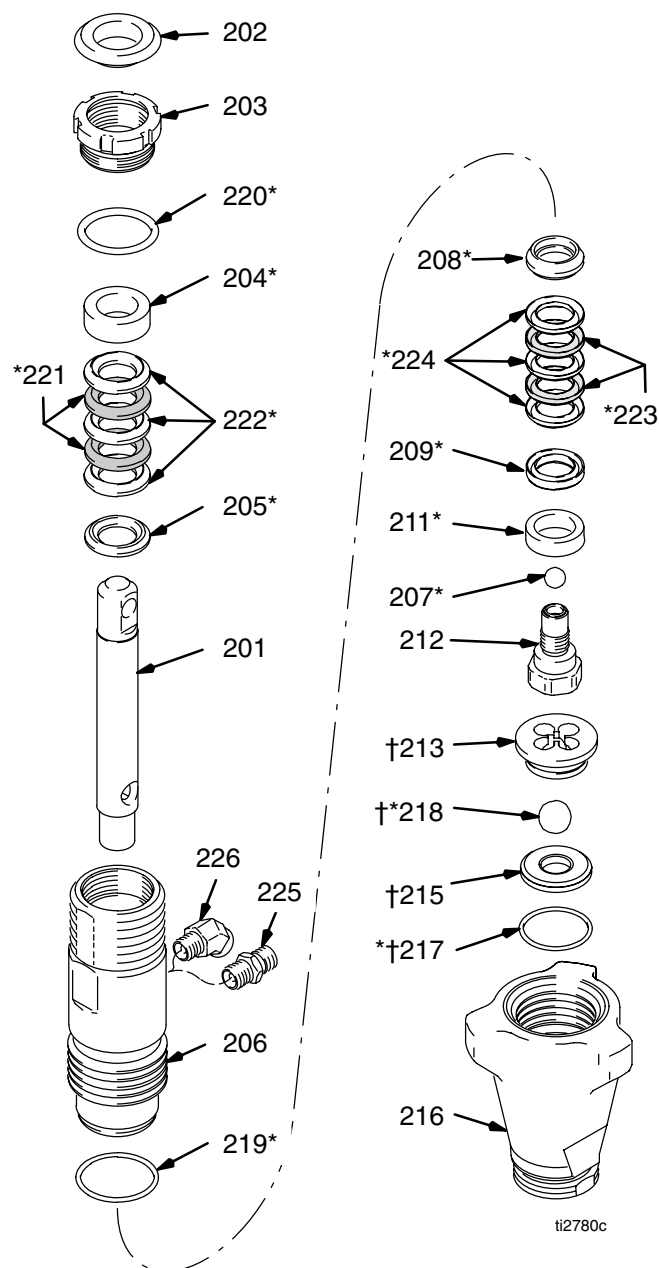
Dia. de l'orifice de sortie / Tamaño de la salida de fluido . . . 1/4 npt(f)

Wetted parts stainless steel, PTFE, leather,
nylon, zinc-plated carbon steel, tungsten carbide,
chrome plating, UHMWPE, Acetal, polyethylene, nylon

Peças lubrificadas aço inoxidável, PTFE, couro,
nylon, aço carbono zincado, carboneto de
tungstênio, cromagem, UHMWPE, Acetal, polietileno

Pièces en contact avec du liquide acier inoxydable et en
PTFE, cuir, nylon, acier carbone zingué,
carbure de tungstène, plaquage au chrome,
UHMWPE, Acetal, polyéthylène

Piezas húmedas acero inoxidable, PTFE,
cuero, nilón, acero al carbono enchapado en cinc,
carburo de tungsteno, enchape en cromo,
UHMWPE, Acetal, polietileno



ti2780c

Parts / Peças / Pièces / Piezas – 249127

Ref No.	Part No.	Description	Qty.
201	249125	ROD, displacement, includes 212	1
202	180656	BUTTON, plug	1
203	193047	NUT, packing	1
204*	176757	GLAND, female, throat	1
205*	176754	GLAND, male, throat	1
206	243176	CYLINDER, pump	1
207*	105444	BALL, sst, 0.3125 in.	1
208*	195129	GLAND, male, piston	1
209*	180073	GLAND, female, piston	1
211*	196759	GUIDE, piston	1
212	239937	VALVE, piston (included with 201)	1
213	15C011	GUIDE, ball	1
215†	246429	KIT, seat, carbide includes 213, 217 and 218	1
216	15E567	VALVE, intake housing	1
217*	15B112	PACKING, o-ring (0.941 in. OD)	1
218*†	105445	BALL, sst, 0.5000 in.	1
219*	108526	O-RING, PTFE	1
220*	117459	O-RING	1
221*	176755	V-PACKING, leather, throat	2
222*	192710	V-PACKING, throat, V-Max™ UHMWPE, blue	3
223*	176749	V-PACKING, leather, piston	2
224*	192712	V-PACKING, piston V-Max™ UHMWPE, blue	3
225	162453	NIPPLE, 1/4 npsm x 1/4 npt	1

* Also included in Kit 244194

† Also included in Kit 246429

* Também incluído no Kit 244194

† Também incluído no Kit 246429

* Inclus aussi dans la trousse 244194

† Inclus aussi dans la trousse 246429

* También incluida en Kit 244194

† También incluida en Kit 246429

Technical Data

/Dados Técnicos/Fiche technique/Datos técnicos

Maximum working pressure / Pressão máxima de trabalho de

Pression maximale de service /

Presión máxima de operación

3300 psi (228 bar, 23 MPa)

3 300 lb/po² (228 bar, 23 MPa)

Fluid inlet size / Dimensões da entrada de líquido

Dia. de l'orifice d'entrée / Tamaño de la entrada de fluido . . 3/4 npt(m)

Fluid outlet size / Dimensões da saída de líquido

Dia. de l'orifice de sortie / Tamaño de la salida de fluido . . . 1/4 npt(f)

Wetted parts stainless steel, PTFE, leather,

nylon, zinc-plated carbon steel, tungsten carbide,

chrome plating, UHMWPE, Acetal, polyethylene, nylon

Peças lubrificadas aço inoxidável, PTFE, couro,

nylon, aço carbono zincado, carboneto de

tungstênio, cromagem, UHMWPE, Acetal, polietileno

Pièces en contact avec du liquide acier inoxydable et en

PTFE, cuir, nylon, acier carbone zingué,

carbure de tungstène, plaquage au chrome,

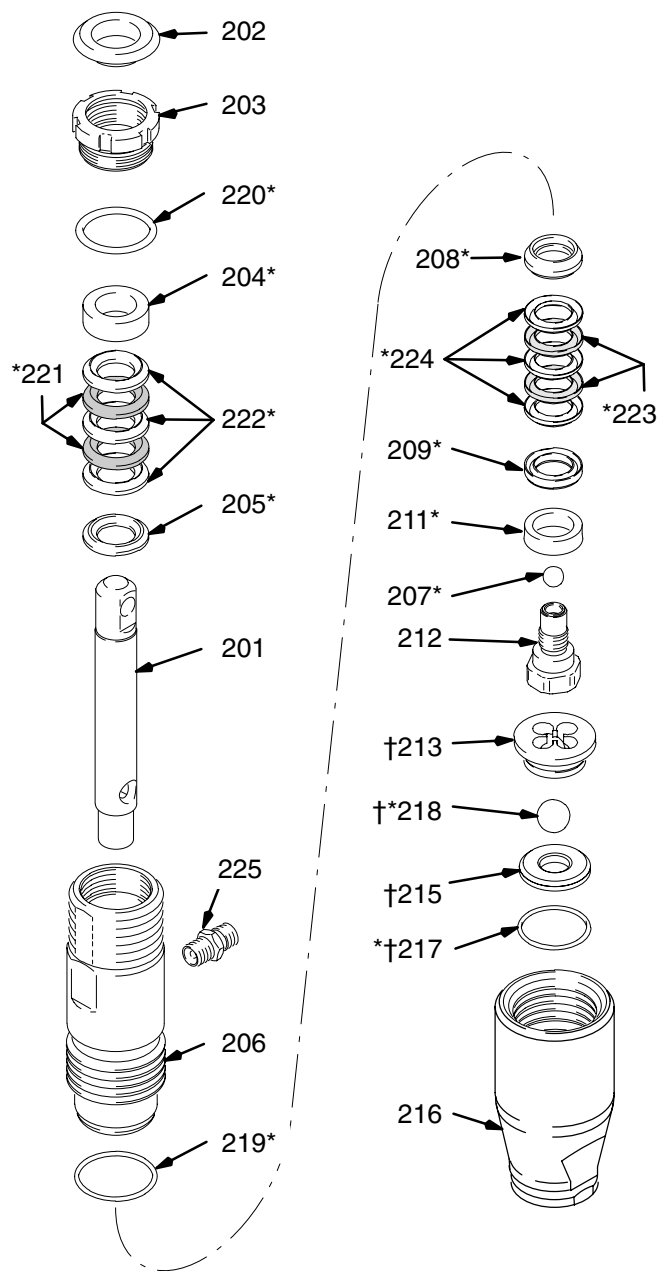
UHMWPE, Acetal, polyéthylène

Piezas húmedas acero inoxidable, PTFE,

cuero, nilón, acero al carbono enchapado en cinc,

carburo de tungsteno, enchape en cromo,

UHMWPE, Acetal, polietileno



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Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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309250 10/2000, Revised 7/2007