



SPECIFICATIONS

AIRMIX[®] GUN MODEL MX 120 LT

Manual : 0309 573.044.212

Date : 15/09/03

Supersede : 573.157.112

Modif. :

ADDITIONAL DOCUMENTATIONS

SPARE PARTS : GUN, MX 120 LT (Doc. 573.309.050)

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SPECIFICATIONS
AIRMIX® MANUAL GUN - MODEL MX 120 LT

1. TECHNICAL FEATURES



TECHNICAL FEATURES	GUN MX 120 LT	OPTIONAL
Air supply pressure	6 bar / 87 psi max.	
Fluid supply pressure	120 bar / 1740 max.	⇒ 90 bar / 1305 psi (refer to § 3) ⇒ 200 bar / 2900 psi (refer to § 3)
Flow	(refer to Doc. 573.309.050)	
Weight	655 g / 144.36 lb	
Use maximum temperature	50° C / 106° F	
Air consumption	3 to 5 m3/h	
Wetted parts	Stainless steel	
Seat (removal)	Stainless steel	Polyacetal (90 bar / 1305 psi)
Fluid fitting (1)	M 1/2 JIC	
Air fitting (2)	M 1/4 NPS	
Trigger	Flexible	
Filter (3) with screen n° 6	Mounted on protective tube	

Parts supplied with the gun :

- 1 polyacetal seat (for use of gun at 90 bar / 1305 psi - refer to § 3)
- 1 spring support, 1 spring, 1 needle stop "200 b" (for use of gun at 200 bar / 2900 psi - refer to § 3)

2. DISASSEMBLY

■ SEAT-HOLDER (15)

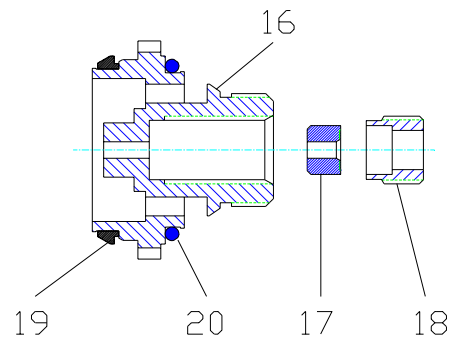
Remove air cap. With the wrench (52) supplied with the gun, unscrew seat-holder (16).

Clean inside of the gun. If required, replace seat-holder (refer to spare parts, ind. 15).

Unscrew seat retainer (18) from the seat assembly to reveal the seat (17). Pry the seat out of the seat recess and replace with a new seat.

Reinstall the seat as shown opposite (tightness cone towards the needle). Do not forget the seal of the seat.

Reassemble in reverse order.



Before installing the seal (19), soak it in hot liquid (water or oil) in order to make it supple.

➡ **Screw the seat holder with the wrench provided by respecting the torque indicated at paragraph 4 : " Assembly instructions".**

■ NEEDLE AND CARTRIDGE (21)

Remove seat-holder (15) as indicated previously.

Remove the trigger (42) by taking off screws (46) and spindle (45).

Remove pin packing (23).

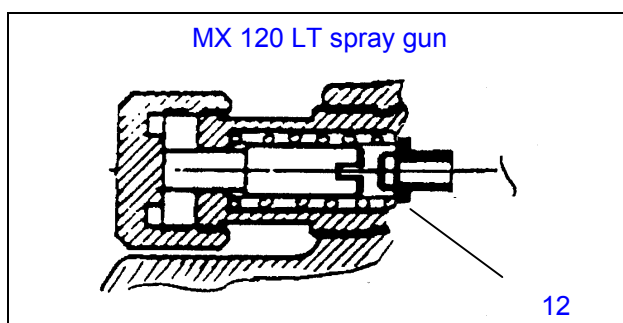
With the wrench, unscrew the needle stop (14) with the spring (13) and its spring support (12).

By means of a round tool, push needle with packing (21) out of body bore.

If required, replace them (refer to spare parts).

Reassemble in reverse order.

➡ **Comply with spring support (12) orientation order depending on the spray gun model.**



■ AIR VALVE ASSEMBLY (25)

Remove the trigger (42). By means of the wrench, unscrew air valve body and remove it with its spring (30) and its seat (26).

If required, replace air valve assembly.

➡ **In the "AIR" servicing kit, take the new air valve mounted with MX valve rod (length : 50 mm / 2").**

▪ **FILTER REPLACEMENT (37)**

Unscrew knurled nut (40) located at the gun material inlet.

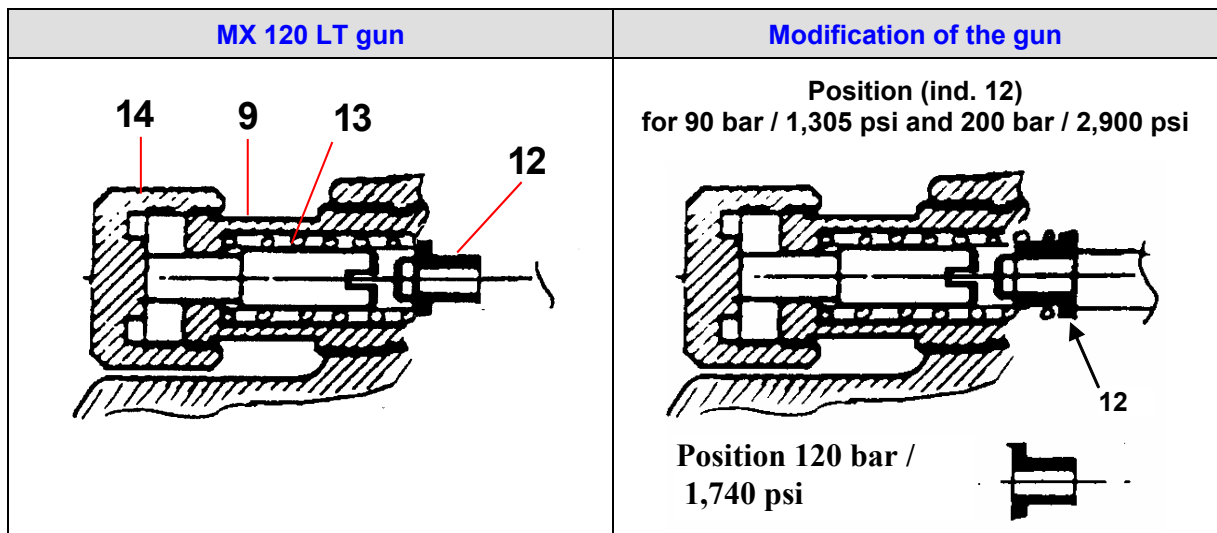
Clean the filter, and by hand, unscrew the filter support (38).

Remove the microfilter (37), change it (refer to chart). Reassemble in reverse order.

Before reassembling the different components, some precautions have to be taken :

- Clean all the parts with the appropriate cleaning solvent and a brush.
- Install new seals if it is necessary after having lubricated them with PTFE grease.
- Install new parts if it is necessary.

3. OPERATING OF THE MX 120 LT GUNS AT 90 BAR / 1,305 PSI OR 200 BAR / 2,900 PSI



▪ **MX 120 LT AT 90 BAR / 1,305 PSI**

Replace the stainless steel seat (17) of the MX 120 LT with an **acetal resin** seat (supplied with the gun).

Remove the needle stop (14) by means of the wrench supplied the gun.

Remove the spring (13) and the spring support (12).

➡ Turn the spring support (12).

Reassemble in reverse order.

▪ **MX 120 LT AT 200 BAR / 2,900 PSI**

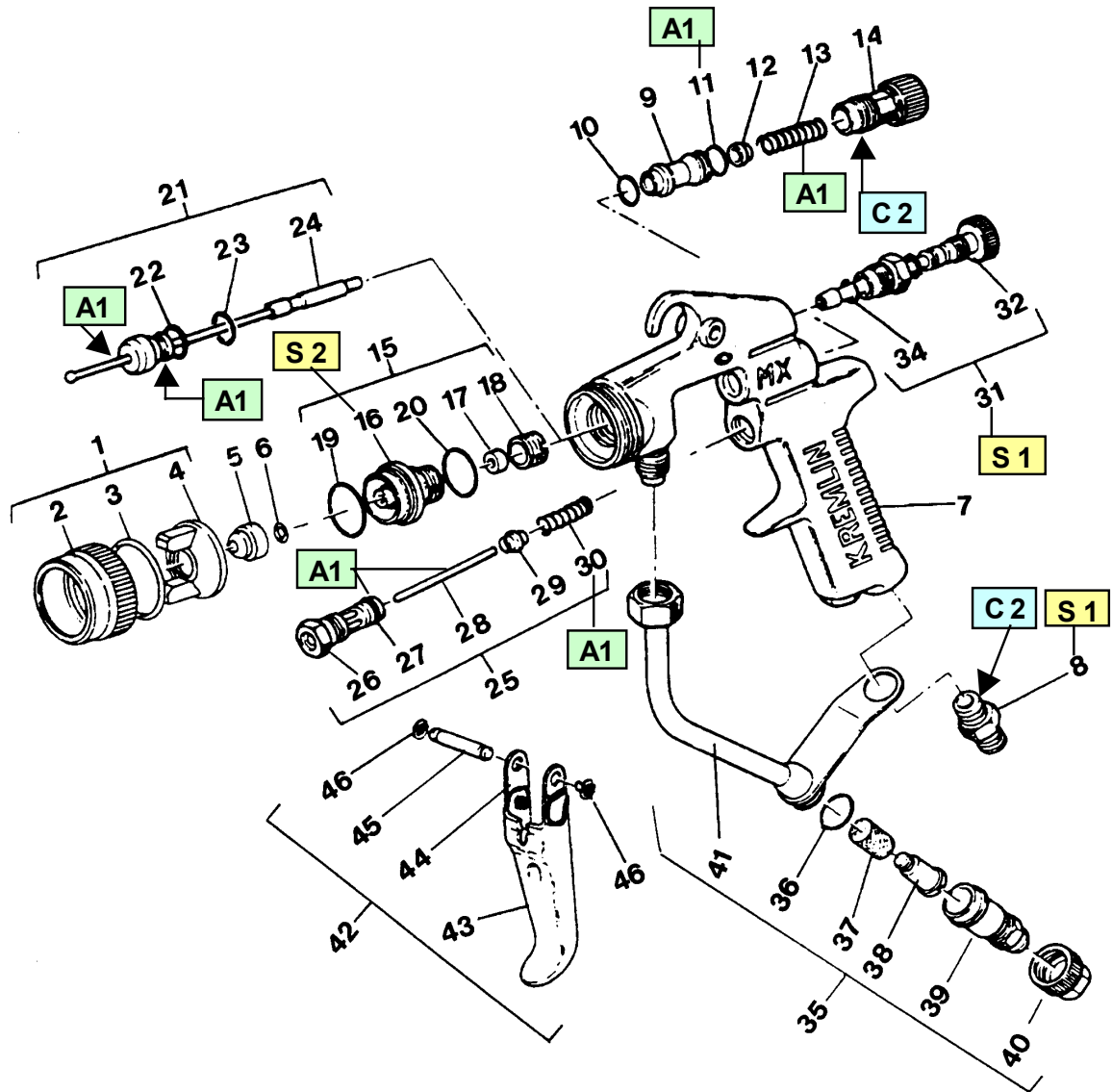
Remove the needle stop (14) with the wrench supplied with the gun.

Remove the spring (13) and the spring support (12).

Install the spring support (12), the spring (13) and the needle stop "200 b" (2,900 psi) (14) supplied with the gun.

➡ Comply with spring support (12) orientation order.

4. ASSEMBLY INSTRUCTIONS

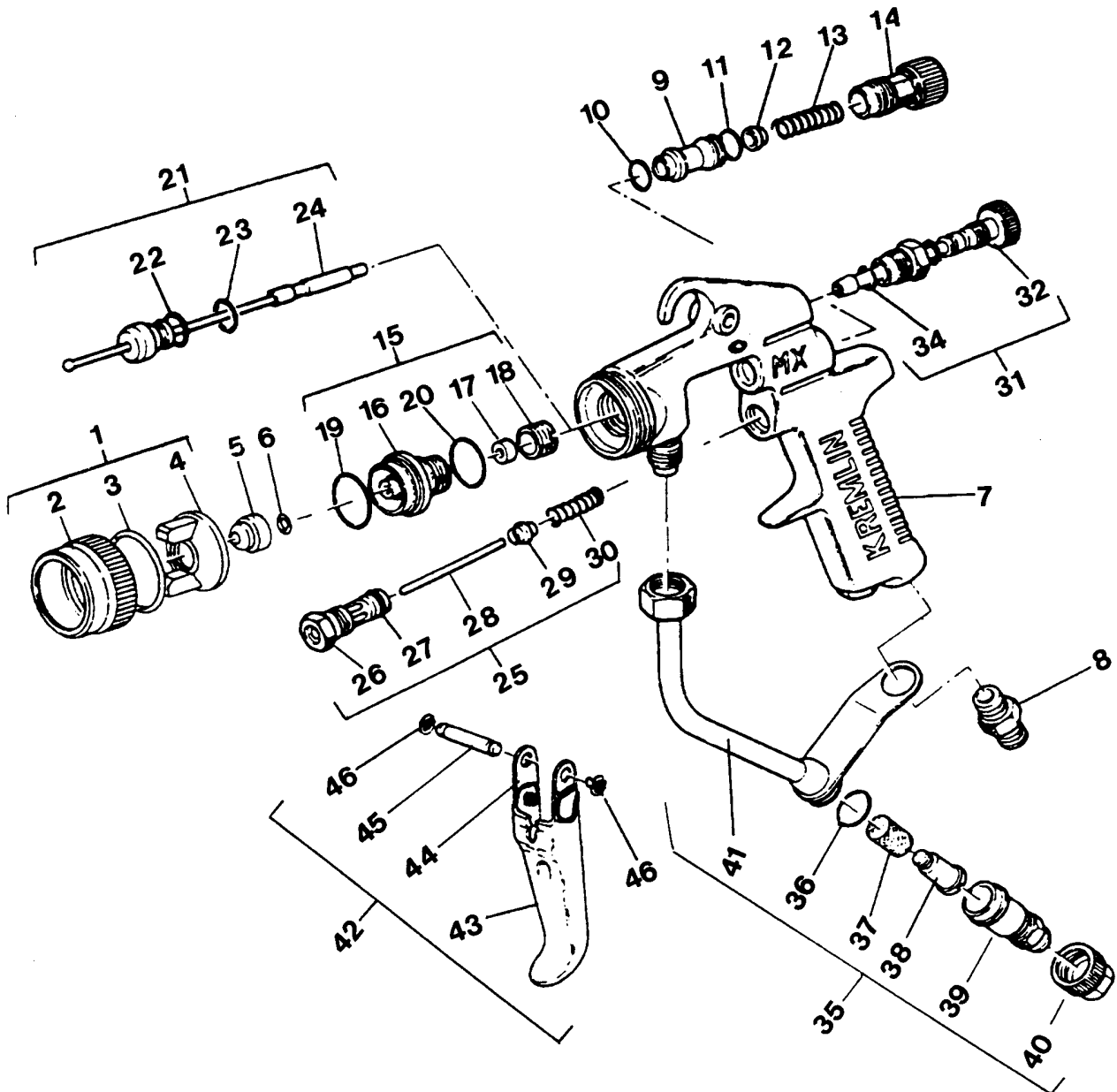


Index	Instructions	Description	Part number
A1	PTFE grease	"TECHNILUB" grease (10 ml)	560.440.101
C 2	Low strength - Anaerobic Adhesive - Loctite 222	Glue bottle (50 ml)	554.180.010
S 1	Screwing torque : 9 - 11 Nm / 6.6 - 8.1 ft / lbf		
S 2	Screwing torque : 24 Nm / 17.7 ft / lbf		



<p>Doc. 573.309.050 Date/Datum/Fecha : 15/09/03 Annule/Cancel/Ersetzt/Anula : 15/01/03 – Doc. 573.290.050</p>	<p>Modif. /Änderung :</p>	<p>Pièces de rechange Spare parts list Ersatzteilliste Piezas de repuesto</p>
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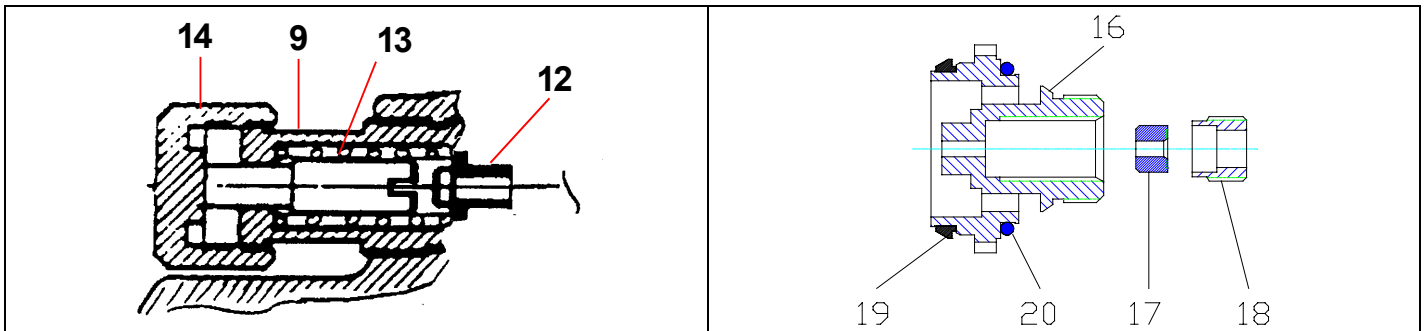
<p>PISTOLET AIRMIX®, type MX 120 LT (sans tête, ni buse)</p>	<p>AIRMIX® GUN, Model MX 120 LT (without aircap or tip)</p>	<p>#</p>
<p>AIRMIX® PISTOLE, Modell MX 120 LT (ohne Zerstäuberkopf, ohne Düse)</p>	<p>PISTOLA AIRMIX®, tipo MX 120 LT (sin cabezal, ni boquilla)</p>	<p>129.650.160</p>



PIECES DE RECHANGE – PARTS IDENTIFICATION LIST – ERSATZTEILLISTE – PIEZAS DE REPUESTO

MX 120 LT

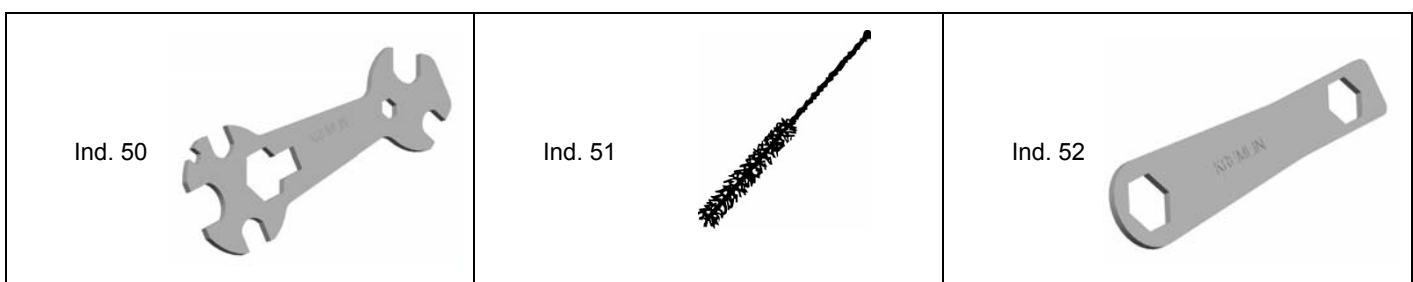
Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
* 1	-	Tête complète (voir accessoires)	Aircap assembly (refer to accessories)	Zerstäuberkopf kpl. (siehe Zubehör)	Cabezal completo (consultar accesorios)	1
2	032.020.001	• Bague de tête	• Aircap ring	• Überwurfring	• Anillo del cabezal	1
3	150.040.309	• Joint de bague (les 10)	• Seal, ring (pack of 10)	• O-Ring (10 St.)	• Junta del anillo (x 10)	1
4	NCS / NSS	• Tête nue	• Aircap only	• Zerstäuberkopf	• Cabezal solo	1
* 5	-	Buse Airmix® (voir accessoires)	Airmix® Tip (refer to accessories)	Airmix® Düse kpl. (siehe Zubehör)	Boquilla Airmix® (consultar accesorios)	1
* 6a	129.609.901	Micro-tamis (les 10) (voir accessoires)	Microfilter (pack of 10) (refer to accessories)	Mikrosieb (10 St.) (siehe Zubehör)	Micro-tamiz (x 10) (consultar accesorios)	1
* 6b	129.529.903	Joint de buse (les 10) (voir accessoires)	Seal, tip (pack of 10) (refer to accessories)	O-Ring, Düse (10 St.) (siehe Zubehör)	Junta de boquilla (x 10) (consultar accesorios)	1
7	129.650.040	Corps pistolet en inox	Gun body, stainless steel	Pistolenkörper, Edelstahl	Cuerpo pistola inox	1
8	050.102.624	Raccord M 1/4 NPS (arrivée d'air)	Connector, air inlet, M 1/4 NPS	Doppelnippel M 1/4 NPS	Racor M 1/4 NPS	1
9	029.650.001	Fourreau	Sleeve, fluid needle stop	Nadelführung	Vaina	1
10	129.029.903	Joint de fourreau (les 10)	Seal, sleeve (pack of 10)	O-Ring, nadelführung (10 St.)	Junta de vaina (bolsa de 10)	1
11	144.579.923	Bague R 8 bis (les 10)	Ring, R 8 bis (pack of 10)	O-Ring R 8 bis (10 St.)	Anillo R 8 bis (x 10)	1
12	029.620.021	Appui ressort	Spring support	Federführung	Soporte muelle	1
* 13	050.312.221	Ressort de pointeau	Spring, fluid needle	Farbnadelfeder	Muelle de aguja	1
14	129.650.155	Butée de pointeau (120 bar)	Fluid needle stop (120 bar / 1740 psi)	Blockierschraube (120 bar)	Tope de aguja (120 bar)	1



* 15	129.626.400	Porte-siège assemblé	Seat-holder assembly	Düsennadelsitz, komplett	Porta-asiento montado	1
16	029.620.501	• Porte-siège	• Seat-holder	• Düsennadelsitz	• Porta-asiento	1
* 17	129.629.923	• Siège inox avec joint (les 2)	• Seat with seal, stainless steel (pack of 2)	• Edelstahl-Einsatz, mit Dichtung (2 St.)	• Asiento inox con junta (bolsa de 2)	1
-	NCS / NSS	- Siège inox seul	- Seat, stainless steel	- Sitz, Edelstahl	- Asiento inox solo	1
-	129.629.922	- Joint de siège (les 10)	- Seal, seat (pack of 10)	- Sitzdichtung (10 St.)	- Junta de asiento (x 10)	1
18	029.600.106	• Vis	• Screw	• Schraube	• Tornillo	1
19	129.609.902	• Joint du porte-siège (les 10)	• Seal, seat-holder (pack of 10)	• Dichtung (10 St.)	• Junta porta-asiento (bolsa de 10)	1
20	129.629.914	• Joint torique (les 10)	• O-Ring (pack of 10)	• O-Ring (10 St.)	• Junta torica (x 10)	1

Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
* 21	129.620.900	Ligne pointeau-cartouche	Cartridge assembly	Farbnadel mit Packung	Conjunto aguja cartucho	1
22	129.400.915	• Joint de cartouche R5A en FPM (élastomères fluorés) (les 10)	• Seal, cartridge, R5A FPM (fluorous elastomers) (pack of 10)	• O-Ring R 5A FPM (Elastomer aus Fluor) (10 St.)	• Junta de cartucho R5A, FPM (elastómeros fluorados) (Bolsa de 10)	1
23	102.201.914	• Circlips Ø 10 (les 10)	• Circlip, Ø 10 (pack of 10)	• Sicherungsring Ø 10 (10 St.)	• Circlips Ø 10 (Bolsa de 10)	1
24	NCS / NSS	• Cartouche	• Cartridge	• Packung	• Cartucho	1
25	129.650.050	Soupape d'air complète	Air valve assembly	Luftventil kpl.	Válvula de aire completa	1
26	NCS / NSS	• Siège de soupape	• Seat, air valve	• Luftventilsitz	• Asiento de válvula	1
27	150.040.322	• Joint (les 10)	• Seal (pack of 10)	• O-Ring (10 St.)	• Junta (bolsa de 10)	1
28	0.29.650.051	• Tige de soupape	• Rod, valve	• Luftventilstange	• Eje de válvula	1
* 29	129.739.910	• Soupape (les 10)	• Valve (pack of 10)	• Ventil (10 St.)	• Válvula (bolsa de 10)	1
30	050.311.221	• Ressort	• Spring	• Ventildfeder	• Muelle	1
31	129.080.030	Pointeau d'air assemblé	Air adjuster assembly	Spritzstrahlregulierventil	Aguja de aire montada	2
32	NCS / NSS	• Pointeau air seul	• Needle	• Nadel	• Aguja de aire sola	1
34	902.202.102	• Circlips Ø 6	• Ring, Ø 6	• Sicherungsring Ø 6	• Circlips Ø 6	1
35	029.650.030	Tube produit avec filtre	Fluid protective tube with filter	Farbrohr mit filter	Tubo producto con filtro	1
36	129.529.918	• Joint (les 10)	• Seal (pack of 10)	• Dichtring (10 St.)	• Junta (bolsa de 10)	1
* 37	129.609.908	• Tamis de 6 (les 5)	• Screen, N° 6 (x 5)	• Sieb, Grösse 6 (5 St.)	• Tamiz de 6 (x 5)	1
38	029.520.310	• Support tamis	• Support, screen	• Stützschaube für Sieb	• Soporte tamiz	1
39	029.520.372	• Corps de filtre	• Filter body	• Filterkörper	• Cuerpo de filtro	1
40	029.520.306	• Ecrou	• Knurled nut	• Überwurfmutter	• Tuerca	1
41	NCS / NSS	• Tube produit	• Protective tube	• Farbrohr	• Tubo producto	1
* 42	129.651.020	Gâchette complète	Trigger assembly	Abzugshebel, komplett	Gatillo completo	1
43	029.651.001	• Gâchette	• Trigger	• Abzugshebel	• Gatillo	1
44	029.651.002	• Bretelle	• Strap	• Gelenkstange	• Tirante gatillo	2
45	029.651.005	• Axe de gâchette	• Spindle, trigger	• Abzugshebelachse	• Eje de gatillo	1
46	934.011.143	• Vis HM 5x10 inox	• Screw, stainless steel, HM 5x10	• Schraube HM 5x10 Edelstahl	• Tornillo HM 5x10 inox	2

50	049.030.021	Clé plate KREMLIN	KREMLIN gun wrench	Pistolenschlüssel	Llave para pistola	1
51	906.300.101	Goupillon	Large size brush	Pistolenreinigungsbürste	Cepillo grande	1
52	049.030.025	Clé (pour serrage du porte-siège)	Wrench (for seat-holder)	Schlüssel (zum Festschrauben des Düsennadelsitzes)	Llave (para el porta asiento)	1



Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
*	129.659.902	Pochette de maintenance "air" (ind. 25, 31)	"Air" servicing kit (ind. 25, 31)	Luftventilsatz (Pos. 25, 31)	Bolsa de reparación "de aire"(índ. 25, 31)	1
*	129.659.901	Pochette de joints (ind. 3, 10, 11, 19, 20, 22, 23, 27, 29, 34, 36) (3 exemplaires de chaque)	Package of seals (ind. 3, 10, 11, 19, 20, 22, 23, 27, 29, 34, 36) (3 seals of each)	Dichtungssatz (Pos. 3, 10, 11, 19, 20, 22, 23, 27, 29, 34, 36) (3 Stück von jeder Position)	Bolsa de juntas (índ. 3, 10, 11, 19, 20, 22, 23, 27, 29, 34, 36) (3 ejemplares de cada uno)	1

* Pièces de maintenance préconisées tenues en stock
 * Preceding the index number denotes a suggested spare part.
 * Bezeichnete Teile sind empfohlene Ersatzteile.
 * Piezas de mantenimiento preventivo a tener en stock.

N C S : Non commercialisé seul.
 N S S : Denotes parts are not serviceable separately.
 N S S : Bezeichnete Teile gibt es nicht einzeln, sondern nur komplett.
 N C S : no suministrado por separado.

PIECES SPECIFIQUES - SPECIFIC PARTS - SPEZIFISCHE TEILE - PARTES ESPECIFICAS

MX 120 LT ⇒ 90 bar / 1.305 psi

Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
* 17	129.609.911	Siège en résine acétale (les 10)	Seat, acetal resin (pack of 10)	Sitz in Acetalharz (10 St.)	Asiento de resina acetato (bolsa de 10)	1

MX 120 LT ⇒ 200 bar / 2900 psi


Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
12	029.651.004	Appui ressort	Spring support	Federführung	Soporte muelle	1
* 13	050.313.205	Ressort de pointeau	Spring, fluid needle	Farbnadelfeder	Muelle de aguja	1
14	129.651.010	Butée de pointeau (200 bar)	Fluid needle stop (200 bar / 2900 psi)	Blockierschraube (200 bar)	Tope de aguja (200 bar)	1

ACCESSOIRES - ACCESSORIES - ZUBEHÖR - ACCESORIOS

TETES - AIRCAP - DÜSENKÖPFE - CABEZALES (ind. 1)

	#	Utilisation	Use	Benutzung	Utilización
BX 16	132.620.026	Largeur de jet réglable et grande possibilité de réglage de débit.	For adjustable pattern width - Adjustable flow rate.	Einstellbare Spritzstrahlbreite, regulierbare Ausbringmenge.	Anchura de abanico regulable y grande posibilidad de regulacion de caudal
BX 36	132.650.200	Largeur de jet fixe.	For permanent pattern width.	Feste Spritzstrahlbreite.	Anchura de abanico fija.
BX 56	132.650.300	Largeur de jet fixe - Tête traitée anti-adhérent.	For permanent pattern width - antiadherent treatment.	Feste Spritzstrahlbreite - antihafbeschichteter Düsenkopf..	Anchura de abanico fija - Cabezal tratado anti-adherente.
BX 86	132.650.100	Largeur de jet réglable.	For adjustable pattern width.	Einstellbare Spritzstrahlbreite.	Anchura de abanico regulable.

TABLEAU DES BUSES - TIP CHART - DÜSENTABELLE - CUADRO DE BOQUILLAS (ind. 5)
(Buses en inox / Tips, stainless steel / Edelstahldüsen / Boquillas de inox)

		Débit d'eau Water output Wasserdurchlaufmenge		Repères tamis pour filtre Mesh number for filter Siebgrösse für filter Índices para filtro		Largeur de jet à 25 cm / Spray fan width at 25 cm (10 ") Strahlbreite bei 25 cm / Ancho abanico à 25 cm									
Calibre Size Grösse	Ø. (mm)	Caudal agua (l / mn)		Pistolet Gun Pistole Pistola	Pompe Pump Pumpe Bomba	Mini (cm)	7	10	13	17	21	25	29	33	38
		35 bar (500 psi)	70 bar (1000 psi)			Mini (")	2.8	4	5.3	6.7	8	10	12	13	15
						Maxi (cm)	9	12	17	21	25	29	33	37	44
						Maxi (")	3.5	4.7	6.7	8	10	12	13	14.5	17.3
02						Nombre gravé	02.034	02.054							
03	0,18	0,10	0,15	4	2	sur la buse	03.034	03.054	03.074						
04	0,23	0,15	0,22	4	2 ou 4		04.034	04.054	04.074	04.094	04.114				
06	0,28	0,20	0,33	4	4 ou 6	Number engraved on the tip	06.034	06.054	06.074	06.094	06.114	06.134	06.154		
09	0,33	0,30	0,45	6	6 ou 8		09.034	09.054	09.074	09.094	09.114	09.134	09.154		
12	0,38	0,35	0,60	6	8 ou 12	Eingravierte Kennzahl auf der Düse			12.074	12.094	12.114	12.134	12.154	12.174	
14	0,41	0,40	0,72	12	8 ou 12		14.034	14.054	14.074	14.094	14.114	14.134	14.154	14.174	
18	0,48	0,45	0,85	12	12	Número índice gravado sobre la boquilla						18.134	18.154	18.174	
20	0,50	0,50	1,06	12	12				20.074	20.094	20.114	20.134	20.154	20.174	20.194
25	0,56		1,33	12	15						25.134				
30	0,61	0,75	1,60	12	15				30.074		30.114	30.134	30.154	30.174	30.194
45	0,73	1,15	2,30	12	20						45.114		45.154	45.174	45.194

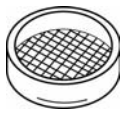
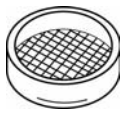

Pour établir la référence d'une buse, remplacer les croix par le nombre repère de la buse précédé de 134.5XX.XXX
 Exemple : pour commander une buse 09.094, utiliser la référence : 134.509.094

To obtain tip part number, replace the crosses by the engraved tip number preceded by 134.5XX.XXX
 Example : use part number 134.509.094 to obtain TIP N° 09.094

Die Bestell-Nr. erhält man, indem man die Kreuze durch die vorgenannte Kennzahl ersetzt : 134.5XX.XXX
 Beispiel : für eine Düse 09.094 ergibt sich die Bestell-Nr. : 134.509.094

Para establecer la referencia de una boquilla reemplazar las cruces por el número de la boquilla precedido por 134.5XX.XXX
 ejemplo : para pedir una boquilla 09.094 emplear la referencia : 134.509.094

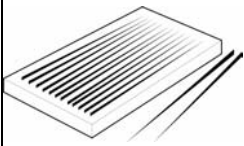

JOINT ET MICRO-TAMIS DE BUSE - TIP MICROFILTER AND SEAL - DÜSENDICHTUNGEN UND MIKROSIEB - JUNTA Y MICROTAMIZ DE BOQUILLA

Ind.		#	Désignation	Description	Bezeichnung	Denominación
6a		129.609.901	Micro-tamis 100 µ (les 10) - Seulement pour buses 03, 04 et 06	Microfilter 100 µ (pack of 10) - Only for tips size 03, 04 and 06	Micro-Sieb 100 µ (10 St.) - Nur für Düsentyp 03, 04 und 06	Micro-tamiz 100 µ (bolsa de 10) - Solo para boquillas 03, 04 y 06
6b		129.529.903	Joint PTFE (les 10) - Seulement pour buse de 09 et calibre supérieur	PTFE seal (pack of 10) - Only for tips size 09 and above	PTFE-Düsendichtungen (10 St.) - Nur für Düsentyp 09 und grösser	Junta PTFE (bolsa de 10) - Solo para boquilla de 09 y calibre superior

FILTRE A LA CROSSE - GUN FILTER - SIEB FÜR PISTOLENFILTER - FILTRO A LA EMPUÑADURA (x 5)

Ind.	#	Tamis - Screen - Sieb - Tamiz N°	Calibre - Mesh - Feinheit	Buse - Tip - Düse - Boquilla
37	129.609.907	4	99 µ	03 - 04 - 06
37	129.609.908	6	168 µ	09 - 12
37	129.609.909	12	280 µ	14 - 18 -

OPTIONS - ON REQUEST - OPTIONEN - OPCIONES

Ind.	#	Désignation	Description	Bezeichnung	Denominación
15	129.622.100	Porte-siège assemblé (Siège en résine acétale)	Seat-holder assembly (Seat, acetal resin)	Düsennadelsitz, komplett (Sitz in Acetalharz)	Porta-asiento montado (Asiento de resina acetabo)
17	129.609.911	Siège en résine acétale (les 10)	Seat, acetal resin (pack of 10)	Sitz in Acetalharz (10 St.)	Asiento de resina acetabo (bolsa de 10)
17	129.629.923	Siège en inox avec joint (les 2)	Seat with seal, stainless steel (pack of 2)	Edelstahl-Einsatz, mit Dichtung (2 St.)	Asiento inox con junta (bolsa de 2)
17	129.659.904	Siège en carbure avec joint (les 2)	Seat with seal, carbide (pack of 2)	Nadelsitz aus Hartmetall und Dichtring (2 St.)	Asiento carburo con junta (bolsa de 2)
22	129.400.901	Joint de cartouche en EPDM (les 10) pour produits : acétone, MEK...	EPDM seal, cartridge (pack of 10) for fluid : acetone, MEK...	O-Ring, packung aus EPDM (10 St.) für Material : Ketone, MEK ...	Junta de cartucho de EPDM (bolsa de 10) para productos ; acetona, MEK ...
	000.094.000	Aiguilles de débouchage (x 12) pour buses : de 03 à 09	Unclogging needles (pack of 12) for tips : size 03 to 09	Düsenreinigungs-nadeln (12 St.) für Düsen : von 03 to 09	Agujas desobturadoras (bolsa de 12) para boquillas : de 03 a 09
	000.094.002	de 12 à 30	size 12 to 30	von 12 to 30	de 12 a 30
	075.800.001	Allonge droite long. 250 mm	10" Extension, straight	Verlängerung 250 mm gerade	Prolongador 250 mm, lateral
	075.800.002	Allonge droite long. 400 mm	16" Extension, straight	Verlängerung 400 mm gerade	Prolongador 400 mm, lateral
	075.850.001	Allonge coudée 45°, long. 250 mm	10" Extension with 45 degree swivel	Verlängerung 250 mm gerade, Kopf 45° abgewinkelt	Prolongador 250 mm, codo a 45°