



INSTRUCTION MANUAL

PNEUMATIC MOTOR FOR PUMPS

Stroke : 200 mm / 7.8"

Series 7200 : # 105272 Series 9200 : # 105292

Manual : 574.226.112 - 1111
«MOT5»

Date : 29/11/11 - Supersede : 04/11/08
Modif.: Update

TRANSLATION OF THE ORIGINAL MANUAL

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

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

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**INSTRUCTION MANUAL
PNEUMATIC MOTOR FOR PUMPS**

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Dear Customer,

You are the owner of our new equipment and we would like to take this opportunity to thank you.

To make sure your investment will provide full satisfaction, special care has been taken by KREMLIN REXSON during all designing and manufacturing processes.

To obtain the best result, safe and efficient operation of your equipment, we advice you to read and make yourself familiar with this instruction and service manual. Indeed, the non-compliance with instructions and precautions stated in this manual could reduce the equipment working life, result in operating trouble and create unsafe conditions.

01. WARRANTY

We reserve the right to make changes; these changes may be carried out after the receipt of the order. No claim will be accepted as a consequence of any change carried out in the instruction manuals or in the selection guides.

Our equipment is checked and tested prior to shipment. In the case of a problem arising with the equipment, this must be in writing, within ten days from the delivery date.

KREMLIN REXSON warrants all equipment manufactured bearing its name, to be free from defect in material or workmanship for a period of 12 months (one shift per day or 1800 hours - 1 term reached) from the date of delivery. Work life is based on single shift working - 8 hours per day. Warranty claims for defective items will only be accepted in writing and will be verified and confirmed by us.

The warranty does not cover fair wear and tear, damage or wear caused by misuse, improper maintenance or non-observance of our recommendations.

KREMLIN REXSON will repair or replace parts (carriage paid to our plant and accepted as defective by us). We shall not be liable for any losses, resulting from a production breakdown. Upon request, we can carry out service work at your premises; all expenses (travelling and accommodation) for KREMLIN REXSON technicians will be chargeable.

In the event that it is found that equipment has been tampered with, this will invalidate the warranty. Equipment that it is bought in will be subject to the suppliers' warranty.

02. 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 (air motor cover, coupling shields, housings,...) have been designed for a 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.

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 of glasses is obligatory	Wear of gloves is obligatory	Product vapor hazard	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 (air motor cover, coupling shields, housings,...) have been designed for a 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.

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 maximum working pressure (MWP) 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,

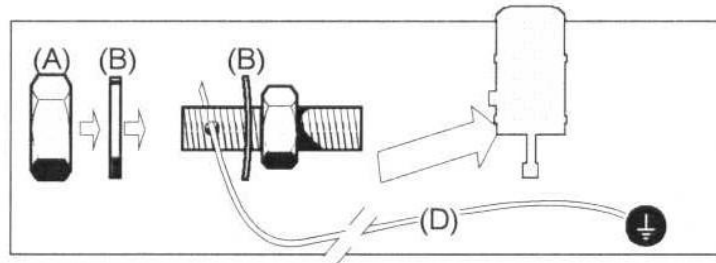
KREMLIN REXSON shall not be liable for physical injuries, direct or indirect material damages caused by the use of chemicals.

SPECIFIC SAFETY INSTRUCTIONS

MOTOR LABEL

 F	MISE EN GARDE	 GB	WARNING	
<ul style="list-style-type: none">- Les fluides sous haute pression peuvent transpercer la peau et provoquer des blessures graves pouvant nécessiter l'amputation.- Ecartez-vous de la buse de pulvérisation ou d'extrusion.- N'arrêtez jamais une fuite avec la main.- EN CAS DE BLESSURE, CONSULTEZ UN MEDECIN IMMEDIATEMENT.- L'installation dans des zones confinées de matériels de pulvérisation ou d'extrusion de produit, de rinçage ou de nettoyage utilisant des liquides inflammables peut provoquer des incendies ou des explosions.- Les flammes nues, les étincelles et les arcs électriques peuvent enflammer des vapeurs inflammables.- IMPORTANT : ÉLIMINER TOUTE SOURCE DE CHARGE ÉLECTROSTATIQUE.- Reliez à la terre tous les matériels situés dans la zone de travail, y compris les moto-pompes, les flexibles et les pièces à traiter.- Éloignez vous des pièces en mouvement.- Ne dépassez pas les pressions maxi d'utilisation de la moto-pompe ni d'aucun composant de l'installation.		<ul style="list-style-type: none">- Liquids under high pressure can pierce the skin, causing serious injury and possible amputation.- Keep clear of gun nozzle or spray tip.- Never stop a leak with your hand.- IN CASE OF INJURY, GET IMMEDIATE SURGICAL TREATMENT.- Spray painting, flushing or cleaning equipment with flammable liquids in confined areas can result in fire or explosion.- Open flames, sparks and electrical arcs can ignite flammable vapors.- IMPORTANT: ELIMINATE ALL IGNITION SOURCES.- Ground all equipment in spray area, including pumps, hoses and objects being sprayed.- Keep clear of moving parts.- Do not exceed pressure rating of pump or any system component.		REXSON / MOT11
PRESCRIPTIONS DE SÉCURITÉ		SAFETY INSTRUCTIONS		
<ul style="list-style-type: none">- Lisez le manuel d'instruction et / ou d'exploitation.- Suivre la procédure de décompression avant toute intervention sur la pompe.- Vérifiez les flexibles et les raccords quotidiennement.- Avant l'utilisation, rincez l'appareil avec un produit compatible pour éliminer tout reste éventuel de produits d'essai en usine.		<ul style="list-style-type: none">- Read instructions manual / user manual.- Relieve pressure before servicing pump.- Check hoses and fittings daily.- Before using, flush unit with material or solvent to remove any remaining factory test fluid.		
ÉTIQUETTES SÉCURITÉ DISPONIBLES GRATUITEMENT SUR DEMANDE		SAFETY TAGS FREE OF CHARGE ON REQUEST		

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 TO THE COMPRESSED AIR SUPPLY

For a correct operating and a long duration life of the motor, supply air must be filtered and not lubricated (Cf § Maintenance).

- You must install a **pressure relief valve** after the air regulator and near to the inlet motor to follow the pressure relief instructions (refer to pump instruction manual - § Troubleshooting chart).
- 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 :

- 1/ Couple the motor to the required fluid section,
- 2/ Connect the main air supply to the motor,
- 3/ Adjust the pressure by means of the air regulator.

03. INSTALLATION

■ HANDLING

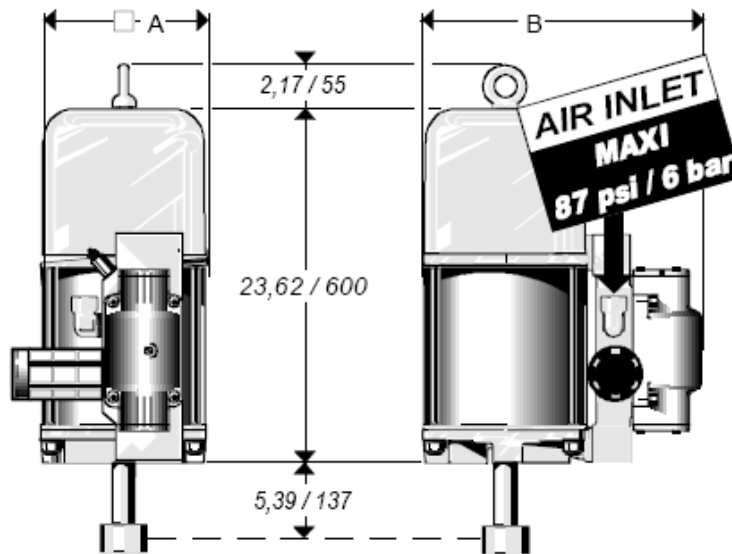
The ring located above the cover is designed for the hoisting of the motor and **must not be used for the handling of the complete machine.**

Never immerse the motor.

■ STORING

Place the equipment safe from dampness after having closed the different air inlets and ports (plugs).

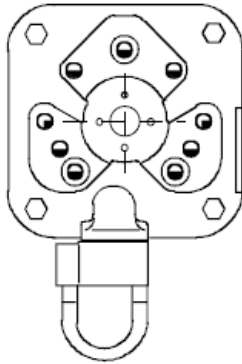
■ DIMENSIONS AND FEATURES



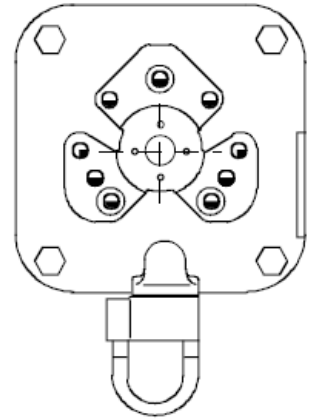
Motor - #	105 272	105 292
A (mm / ")	262 mm / 10.3 "	324 mm / 12.7"
B (mm / ")	400 mm / 15.7"	462 mm / 18.2"
Cylinder bore Ø (mm /")	250 mm / 9.8 "	310 mm / 12.2"
Practical stroke (mm / ")	200 mm / 7.8"	
Maximum stroke (mm / ")	212 mm / 8.36"	
Air supply Ø	3/4"G	
Muffler	1 "	
Noise level (average)	70	
Kg	28	37

■ TAPPING OF THE LOWER FLANGES

MOTOR
REF. 105272



MOTORS
REF. 105292



⊙ M18 (on Ø 7,09 in. / 180 mm)

● M18 (on Ø 6,30 in. / 160 mm)

■ DESCRIPTION OF THE LABEL MARKING

Marking in accordance with the ATEX directive

	MOTEUR / MOTOR	POMPE / PUMP	MOTO-POMPE / MOTOR-PUMP
REF / SERIE	<input type="text"/>	<input type="text"/>	<input type="text"/>
○ Max.pres.(bar/psi)	<input type="text"/>	<input type="text"/>	<input type="text"/>
	<input type="text"/>		<input type="text"/>
	KREMLIN REXSON France		II 2 G CE <input type="text"/>
			RATIO

KREMLIN REXSON STAINS FRANCE	Name and address of the manufacturer
MOTEUR / MOTOR	Motor part number and serial number. The two first numbers indicate the manufacturing year.
POMPE / PUMP	-
MOTO-POMPE / MOTOR-PUMP	-
II 2 G	<p>II : group II 2 : class 2</p> <p>Surface equipment meant to area where explosive atmospheres due to gas, vapours, mists or air mixtures with dusts are liable to appear from time to time in usual operating.</p> <p>G : gas</p>

■ CONNECTIONS OF THE SUBSETS

PNEUMATIC SUPPLY : Any restrictive operation on motor air supply and/or exhaust can reduce its efficiency. The maximum air supply is 6 bars / 87 psi.

04. OPERATING

■ EXPECTED USE

These pneumatic motors are designed to be coupled with the recommended KREMLIN REXSON pumps to get the required ratio and flow rate (refer to the document concerning the motor pumps).

■ OPERATING DESCRIPTION

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

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

05. USE

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

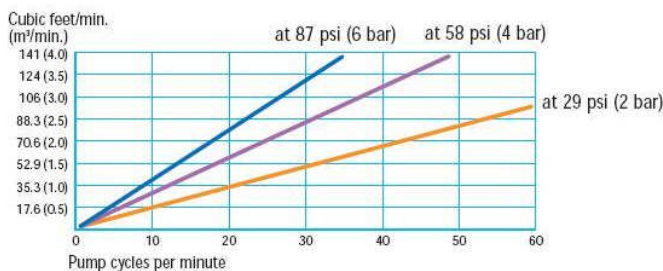
The manufacturer will not be held responsible for bodily injury or failure and / or damage to property due to removal or partial removal of the guards.

■ ADJUSTMENT

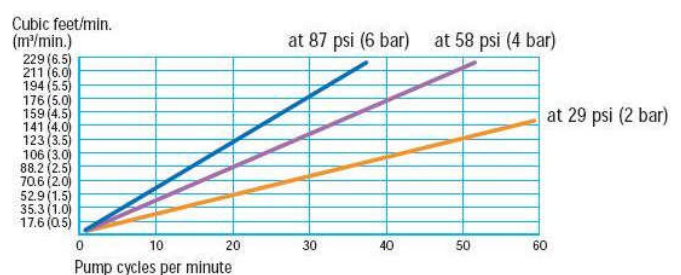
The increase of the motor supply air pressure (via the air regulator) leads to an increase of the number of pump piston returns/mn (cycles) which leads to a flow rate increase and to an outlet pressure increase of the pumped material.

AIR CONSUMPTION OF THE MOTORS	
Pressure of the motors at 6 bar / 87 psi	
Version	daN
7200	2900
9200	4480

Type 7200



Type 9200



■ TROUBLESHOOTING CHART

Carry out the pressure release instructions before any intervention :

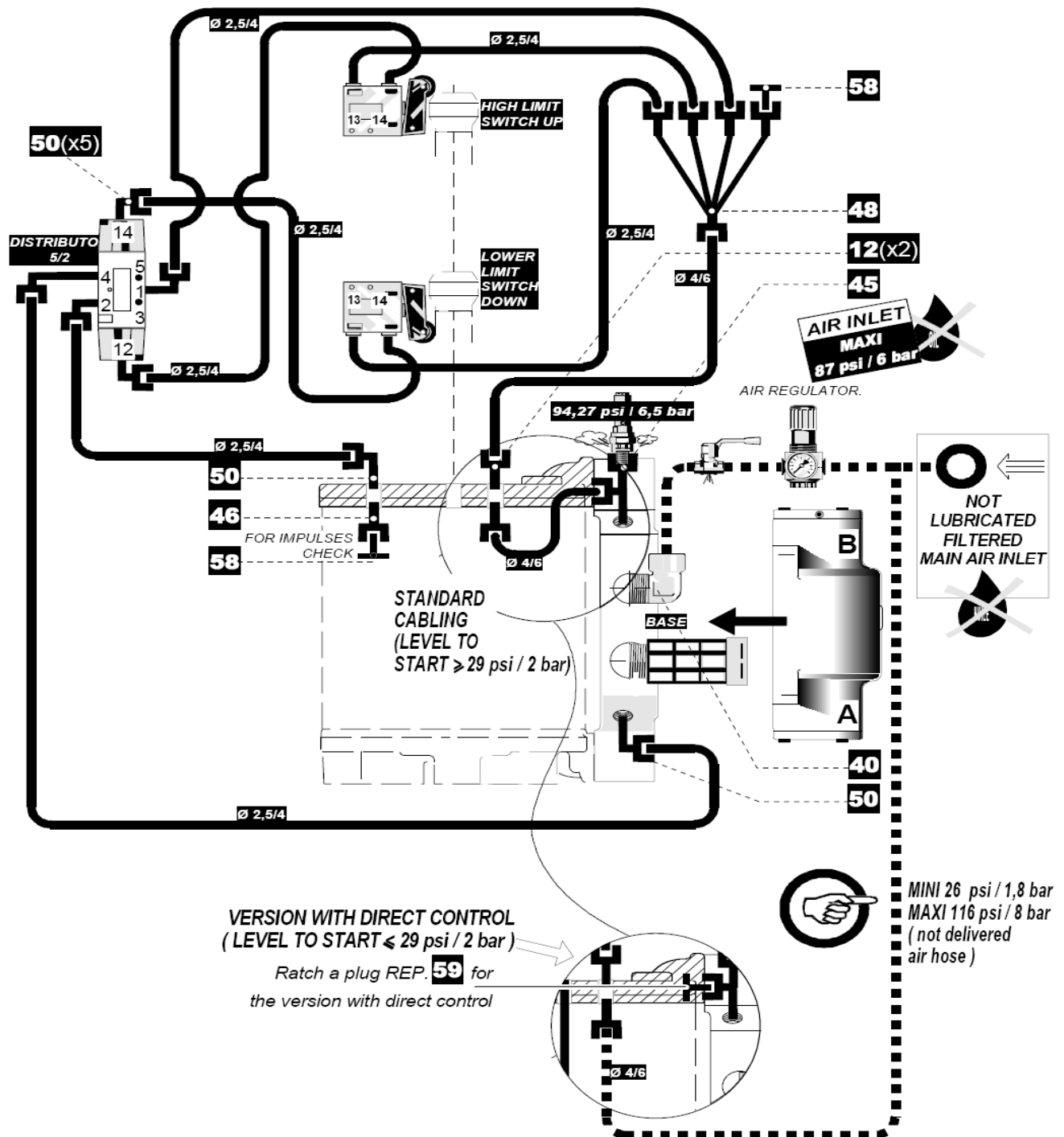
- shut off the air inlet using the release pressure valve to evacuate the residual air,
- depressurize the material circuit opening the pump drain valve or the gun.

Caution : Check the conformity of the cabling before any intervention.

TROUBLES	CAUSES	SOLUTIONS
Motor piston locked	Defective sensors Defective control distributor Defective power distributor	Adjust or change the sensor (s). Check the operating, change if necessary. Check the operating, change if necessary.
Material flow rate drop	Leakage during the exhaust Muffler clogged up	Check the seals of the piston; change them if necessary. Check the seals of the distributor; change them if necessary Clean or change the muffler.
Important leakage during the exhaust	Distributor base seal incorrectly mounted Power distributor defective	Mount the seal correctly. Check the operating; change if necessary.

06. PNEUMATIC CABLING

Pneumatic diagram

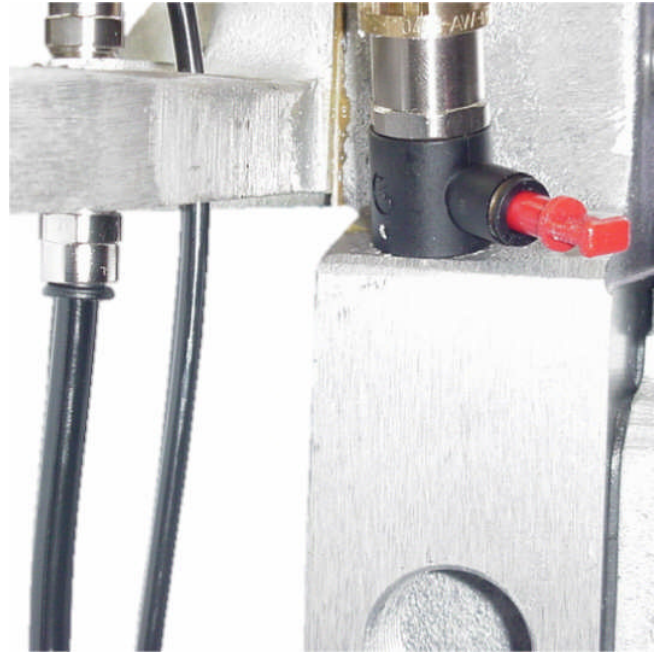


Standard cabling



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**.

07. MAINTENANCE

■ PREVENTIVE MAINTENANCE



CAUTION

BEFORE ANY INTERVENTION, PLEASE FOLLOW THE PRESSURE RELEASE INSTRUCTIONS AND THE SAFETY INSTRUCTIONS.

The motor 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 a 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.**

The motor is designed to have a minimum maintenance (supply air filtered). We advice you to carry out a preventive maintenance after an operating of 12 months. Check :

- if the air filter is clogged,
- that there is no air leakage,
- that air hoses are not damaged,
- that the connections between fittings and hoses are correct,
- the correct condition of the supply hoses (rubber, setting,...), regulators and gauges,
- the tightening of the components,
- the condition of the muffler (s),
- the fixing of the cover,
- the correct operating of the safety valve,
- the condition of the relief valve.

■ DISASSEMBLY / ASSEMBLY



CAUTION

READ THE SPARE PARTS' LIST AND THE SERVICING KITS AVAILABLE.

**Guards (air motor cover, coupling shields, housings,...) have been designed for a 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.**

The maintenance consists in changing the damaged parts and cleaning the parts with compatible materials without using abrasive materials which can damage them. The O-Rings are mounted with a "pneumatic" grease. Make sure during the assembly that the seals are not damaged to avoid a bad operating of the motor.

Disassembly of the motor and of the pump :

- 1/ Adjust the air regulator to 0 bar / 0 psi,
- 2/ Shut off the air supply from the motor, then carry out the pressure release and drain instructions,
- 3/ Take off the axis lock (21),
- 4/ Lift the closing ring (25),
- 5/ Take off the two half bushes (26) and put aside the closing ring,
- 6/ Remove the fixing screws of the motor,
- 7/ Put aside the motor.

Disassembly of the distributors and of the sensors :

- 1/ Unscrew the 2 screws (27) and remove the washers (28),
- 2/ Take off the cover (2) and disconnect the air hoses,
- 3/ Unscrew the 4 screws (34), put aside the distributor (33) and remove the base seal (F),
- 4/ Unscrew the 4 screws (38) and put aside the base (43),
- 5/ Remove the 2 base seals (44),
- 6/ Unscrew the 2 screws (30) and remove the U-bolt (4),
- 7/ Unscrew the screws (27) and put aside the distributor/sensors assembly,
- 8/ Unscrew the 2 screws (10) and remove the distributor (9),
- 9/ Unscrew the screws (7) and put aside the sensors (6),
- 10/ Remove the screw (31) and the cam (32),
- 11/ Change the defective parts.

The assembly is carried out in the reverse order of the disassembly sequence. Caution to the following instructions :

- During the changing of the sensors (6), push them in the opposite direction of the piston rod, then tighten the screws,
- The wheels must flush up the piston rod,
- Cable once again the parts according to the pneumatic diagrams,
- Orientate the distributor base seal (33) according to the A and B indexes.

Changing the seals of the upper and lower flanges and of the piston :

- 1/ Unscrew the screw (31) and remove the cam (32),
- 2/ Unscrew the 4 nuts (24), remove the washers (23) and the 4 screws (5),
- 3/ Remove the upper flange assembly (14), the cylinder (20) (2 components polyurethan paint protection), the lower flange assembly (22) and the rod/piston assembly,
- 4/ Check the O-Rings (15) of the flanges, change them if necessary,
- 5/ Remove the screws (42), take off the stop flange (2 parts) (19) and the adapter (2 parts) (17),
- 6/ Take off the rod (8) downstream and remove the piston assembly,
- 7/ Check the O-Ring (13), change it if necessary,
- 8/ Check the piston O-Ring (16), change it if necessary then put aside the piston (18).

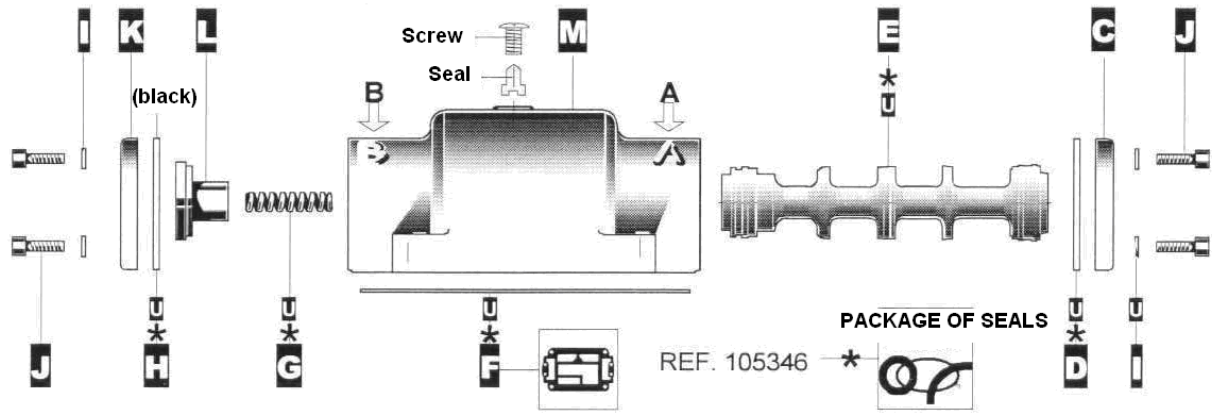
The assembly is carried out in the reverse order of the disassembly sequence. Caution to the following instructions :

- Stage 5 : Applique "ONE SEAL LOCTITE N° 518" paste on the adapter (2 parts) (17) as well as on the screws (42) to ensure the tightness between piston and rod,
- Stage 8 : Assembly of the piston floating seal (16) : First, insert the seal (with a light coating of pneumatic grease) in the groove of the piston. Position the rod/piston/seal assembly above the cylinder. Press on the sides of the seal until the piston/rod assembly slides inside the cylinder.

Changing the bearing seals :

- 1/ Unscrew the 4 screws (55),
- 2/ Remove the bearing assembly (if necessary, use the M6 tapping holes,
- 3/ Remove and check the seals (36 & 37); change them if necessary.

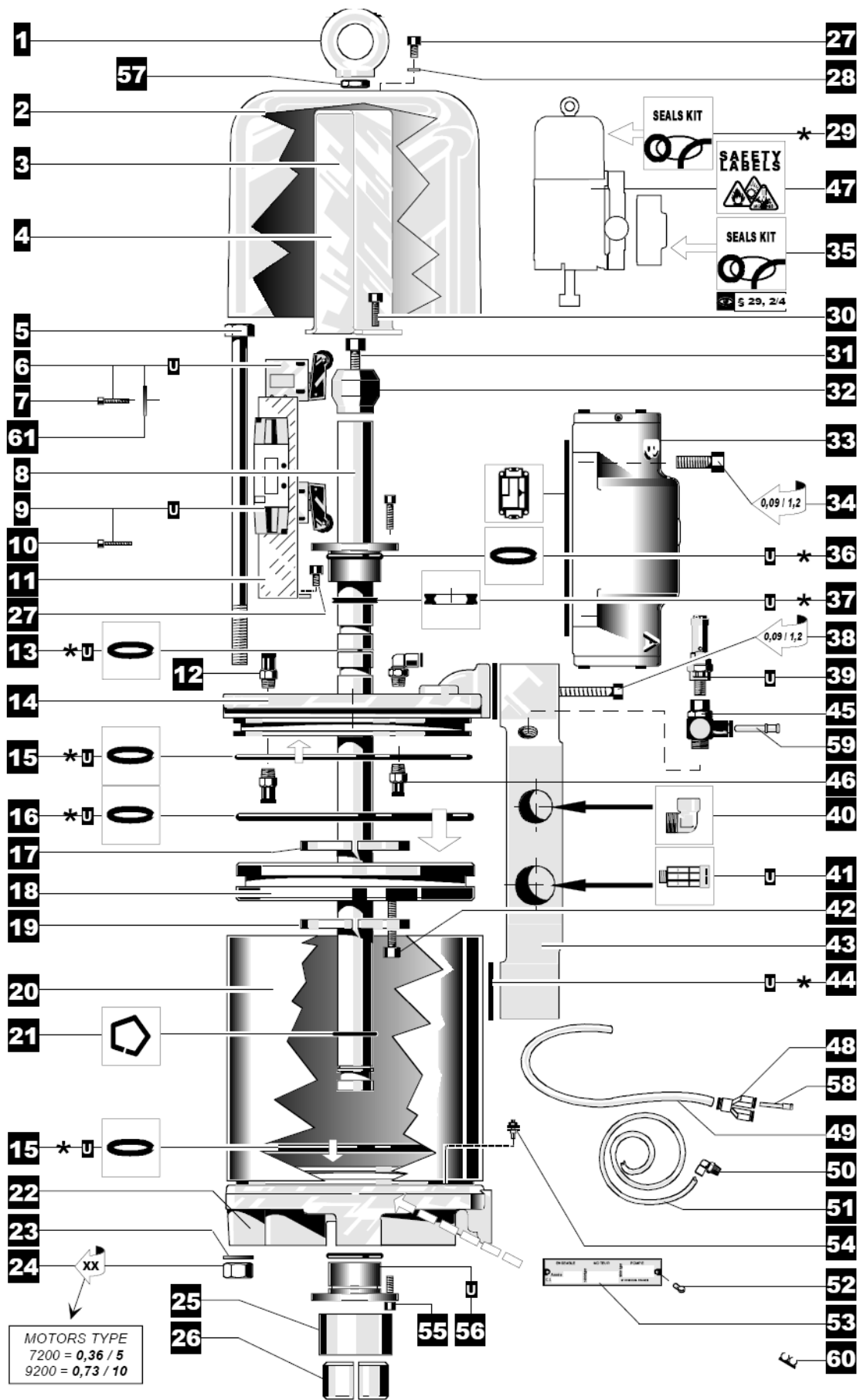
Disassembly of the distributor (33) :



U = WEAR PARTS * = INCLUDED IN THE PACKAGE OF SEALS REF 105346

- 1/ Disconnect the air hoses,
- 2/ Unscrew the 4 screws (34) which fix the distributor on the base, remove the seal (F); check it and change it if necessary,
- 3/ Unscrew the 4 screws (J) which fix the cover (C) to the body (M) (side A); check the seal (D), change it if necessary,
- 4/ Unscrew the 4 screws (J) which fix the cover (K) to the body (M) (side B); check the seal (H) and change it if necessary,
- 5/ Take off the valve (E), the spring guide (L) and the spring (G),
- 6/ Carry out the assembly in the reverse order of the disassembly sequence.

08. EXPLODED VIEW AND PARTS' LIST



		105 272	105 292	
Ind	Description	#		Qty
1	Hoisting ring	91 422		1
2	Cover	209 362	209 352	1
3	Screw, HM 12x25	88 069		1
4	U bolt	209 355		1
5	Screw	91 436	91 437	4
*6	Sensor (x2)	151 800 002		2
7	Screw, CHc 4x20	-		4
8	Piston rod	205 704		1
*9	Distributor, 5/2	91 424		1
10	Screw, CHc 3x25	932 151 326		2
11	Support	209 354		1
12	Fitting	905 124 901		2
*13	O-Ring seal	NSS		1
14	Upper flange	209 360	209 350	1
*15	O-Ring seal	NSS		2
*16	O-Ring seal	NSS		1
17	Adapter (2 parts)	205 593		1
18	Piston	209 363	209 353	1
19	Stop flange (2 parts)	205 592		1
20	Cylinder	205 707	9 201	1
21	Axis lock	90 165		1
22	Lower flange	209 361	209 351	1
23	Washer	963 040 023	963 040 025	4
24	Nut	953 010 023	953 010 025	4
25	Closing ring	90 165		1
26	Bush (2 parts)	205 211	205 211	1
27	Screw, CHc 6x10	88 130		4
28	Washer, MU6	963 040 016		2
*29	Seal kit - motor	105 273	105 293	1
30	Screw, CHC M8x20	88 150	88 151	2
31	Screw, CHc M10x30	88 189		1
32	Cam	209 364		1
33	Distributor, 4/2	91 433		1
34	Screw	88 514		4
*35	Seal kit - distributor	105 346		1
*36	O-Ring seal	NSS		2
*37	Seal	NSS		2
38	Screw, CHC M8x60	88 908		4

		105 272	105 292	
Ind	Description	#		Qty
*39	Safety valve	903 080 401		1
40	Elbow	552 434		1
*41	Muffler	91 766		1
42	Screw	88 735		6
43	Base	209 365		1
*44	Base seal	NSS		2
45	Fitting	552 542		1
46	Fitting	905 120 907		1
48	Air fitting	552 226		1
49	Air hose, Ø 4x6	76 607		0,2m
50	Elbow fitting	905 120 926		7
51	Air hose, Ø 2,5x4	76 764		3,1m
52	Rivet	-		2
53	Identification plate	-		1
54	Ground	104 790		1
55	Screw, CHc 6x20	88 134		8
*56	Bearing	205 606		2
57	Nut, HM 12	88 321		1
58	Plug	905 120 937		2
59	Plug	905 120 924		1
60	Rack	-		1
61	Washer, MU4	963 040 012		4

Seal kit - Motor		
#	Description	Qty
105 273 105 293	Seal kit (ind. 13, 15(x2), 16, 36(x2), 37(x2), 44(x2))	1

* Preceding the index number denotes a suggested spare part N S S : Denotes parts are not serviceable separately.