



SPECIFICATIONS

FLOWMAX® PUMP

model 08-120 F & 08-120 FT

model 16-120 F & 16-120 FT

Manual : 1003 573.038.212

Date : 25/03/10 – Supersede : 26/08/08

Modif. : Update

ORIGINAL MANUAL

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

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

ADDITIONAL DOCUMENTATIONS - SPARE PARTS

PUMPS	08-120 F and 08-120 FT	16-120 F and 16-120 FT
Wall mounting unit	Doc. 573.117.050	Doc. 573.116.050
Fluid section	Doc. 573.113.050	Doc. 573.113.050
Air motor	Doc. 573.045.050	Doc. 573.046.050
Reversing block	Doc. 573.087.040	Doc. 573.087.040
Air supply	Doc. 573.403.050	Doc. 573.403.050

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SPECIFICATIONS

STAINLESS STEEL FLOWMAX® AIRMIX® PUMPS,
model 08-120 F, 08-120 FT, 16-120 F, 16-120 FT

1. TECHNICAL FEATURES

- Air operated piston pump with bellows seal fluid packing.
- Low maintenance and ease of use - Use without lubrication.

Recommended for :

- Supplying one or several spray guns.
- Water-based or solvent-based paints whose viscosity is lower than 1 000 mPa/s.

■ FLOWMAX® PUMP : 08-120 F & 08-120 FT

Motor type1000-4 or 1000-4T
 Pump body type.....FLOWMAX 120 F
 Theoretical fluid pressure ratio.....8/1
 Effective fluid pressure ratio.....7,5/1

Wetted parts :

Hard chrome stainless steel,
 Stainless steel,
 Carbide.

Tightness packings :

Bellows : polyethylene.
 Upper, fixed : GT (polyethylene).
 Lower, mobile : polyethylene.

Air motor stroke	100 mm	4 inch
Air motor section	100 cm ²	15.5 sq.in
Hydraulic section	12 cm ²	1.9 sq.in
Delivery per cycle	240 cc	8.5 oz
Number of cycle	4 per liter	16 per gal
Fluid delivery (30 cycles)	7,2 l	1.9 US Gal
Maximum air operating pressure	6 bar	88 PSI
Maximum discharge pressure	45 bar	653 PSI
Noise level	76 dBa	76 dBa
Maximum operating temperature	50°C	122°F
Weight (wall mounted pump)	32 kg	70.5 Lbs

■ FLOWMAX® PUMP : 16-120 F & 16-120 FT

Motor type 2000-4 or 2000-4 T
 Pump body type..... FLOWMAX 120 F
 Theoretical fluid pressure ratio.....16/1
 Effective fluid pressure ratio.....15/1

Wetted parts :

Hard chrome stainless steel,
 Stainless steel,
 Carbure.

Tightness packings :

Bellows : polyethylene.
 Upper, fixed : GT (polyethylene).
 Lower, mobile : polyethylene.

Air motor stroke	100 mm	4 inch
Air motor section	200 cm ²	31 sq.in
Hydraulic section	12 cm ²	1.9 sq.in
Delivery per cycle	240 cc	8.5 oz
Number of cycle	4 per liter	16 per gal
Fluid delivery (30 cycles)	7,2 l	1.9 US Gal
Maximum air operating pressure	6 bar	88 PSI
Maximum discharge pressure	90 bar	1306 PSI
Noise level	78 dBa	78 dBa
Maximum operating temperature	50°C	122° F
Weight (wall mounted pump)	32 kg	70.5 Lbs

■ FITTINGS

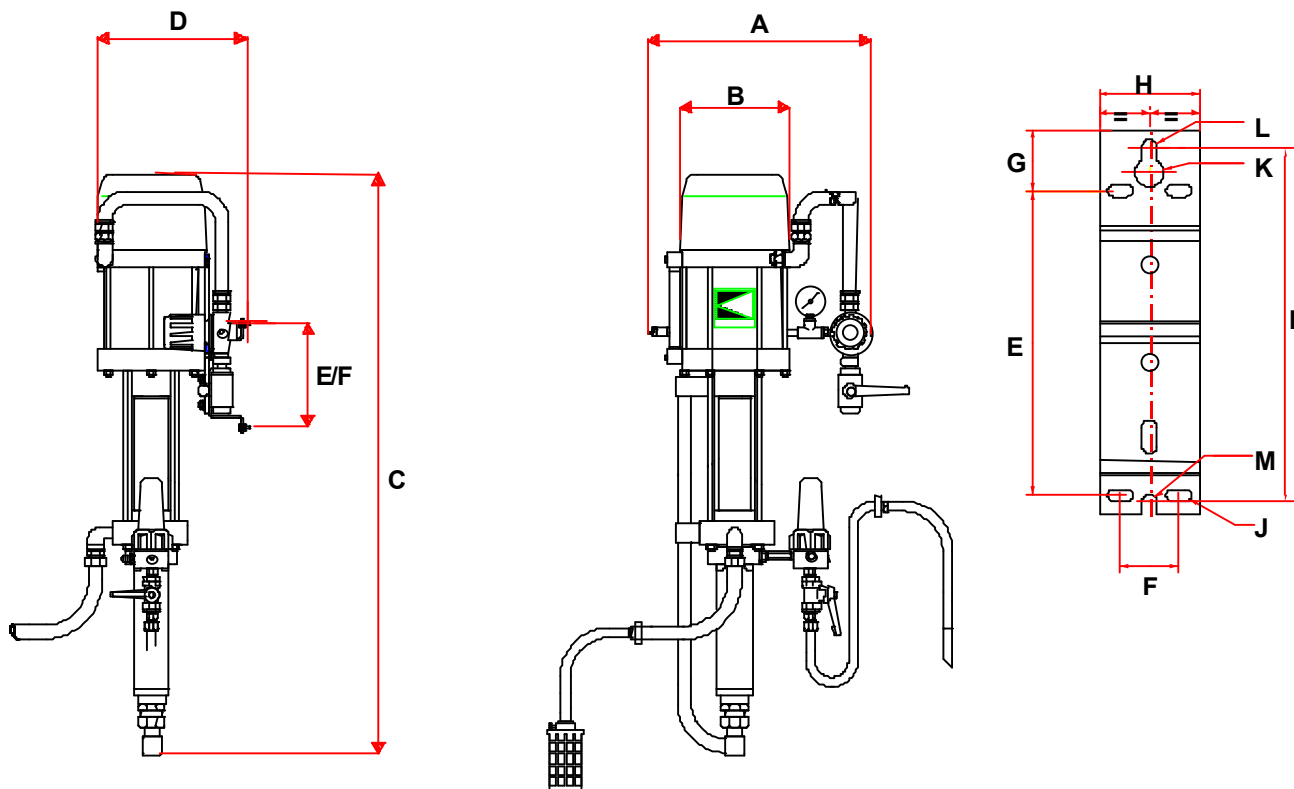
		Bare pump	Pump with equipment
Air	Inlet	Standard motor : Female 3/8 NPS Turbo motor : Male 3/4 NPS	Female 3/4 BSP (valve - air supply)
Material	Inlet	Female 1/2 BSP	Male 26x125
	Outlet	Female 1/2 NPS	Male 1/2 JIC (filter outlet)

■ HOSES WITH FITTINGS

Pump air supply hose (minimum \varnothing for a 5m / 16.5 ft length) :	\varnothing 16 mm / 5/8"
AIRMIX [®] fluid hose (between fluid outlet of the pump and gun) :	4,8 mm ID / 3/16 dia
Air hose (between "GUN AIR" regulator and spray gun) :	7 mm ID / 1/4 dia
For circulating : HP fluid hose (pump fluid outlet) :	minimum ID 9,52 mm / 3/8" dia

■ DIMENSIONS

Ind.	mm	"	Ind	mm	"	Ind	mm	"	Ind	mm	"
A	400	15.75	B	220	8.66	C	1,050	41.34	D	270	10.63
E	182	7.2	F	35	1.38	G	36.5	1.43	H	60	2.36
I	211.5	8.3	J	\varnothing 7 x 15	\varnothing 0.27 x 0.6	K	\varnothing 17	\varnothing 0.67	L	\varnothing 9	\varnothing 0.35
M	\varnothing 9	\varnothing 0.35									



2. MAINTENANCE



WARNING :

Before any action on the pump, shut off the compressed air supply and depressurize the systems by triggering.

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.

DISASSEMBLY / REASSEMBLY OF THE FLUID SECTION

**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.**

Unscrew fitting (39) and screws (43 & 45) to remove attachment fluid tube (41).

■ SUCTION VALVE (DOC. 573.113.050)

Unscrew suction valve (28). (If cylinder (22) remains attached to the suction valve, unscrew both parts. Then, hold cylinder (22) by inserting a rod into the cylinder holes designed for this purpose).

The ball (29) is secured on the valve (28) by means of a circlips (30).

Clean the parts.

Reinstall suction valve (28) and seal (31). Replace them if necessary.

■ CYLINDER

In order to make easier the disassembly, a hole is drilled in the cylinder (22) at each end.

In relation to the part which is unscrewed first, insert a rod into one of these holes to unscrew the other part.

When reassembling, be certain the two seals (25 and 31) are installed.

■ EXHAUST VALVE AND MOBILE PACKING

Unscrew cylinder (22) and pull it downwards.

Unscrew exhaust valve (24) by holding piston (21).

Remove ball (33) and mobile packing (cup seal ind. 23).

Clean the parts and reinstall them. Replace seals if necessary.

■ UPPER TIGHTNESS SEAL

Unscrew the 4 screws (26).

Remove tightness seal (27) by pulling discharge flange (20) downwards.

Replace tightness seal (27), O-Rings (25 and 11).

Reinstall the parts in the reverse order of the disassembly sequence.

DISASSEMBLY / REASSEMBLY OF THE COUPLING (BELLOWS)

Disassemble the fluid section prior to carrying out the following procedure.

■ BELLOWS

Unscrew the nuts (14) from the tie-rods.

Remove suction flange (1) and cylinder (2) by pulling them downwards.

Remove screws (12) to disconnect suction bearing (3) from air motor.

Disconnect intermediate piston (9) from air motor rod.

Remove coupling parts.

Remove bellows flange (4) by unscrewing screws (13) to free the upper part of the bellows.

Unscrew skirt (8) to free the lower part of the bellows.

Replace bellows (5).

When installing bellows push it into skirt firmly (8).

Insert intermediate piston (9) into bellows (5) and screw the skirt at the piston end.

Insert bellows and piston (9) into the suction bearing (3).

Install flange (4) in the suction bearing (3) and tighten the whole with the screws (13).

Connect bellows-piston set to motor rod and secure the whole on the lower support of the air motor by using screws (12).

Reinstall fluid section piston (21) on intermediate piston (9).

Replace seals (11). Then install cylinder (2) and suction flange (1).

Install the whole on tie-rods and tighten it with nuts (14).

AIR MOTOR

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

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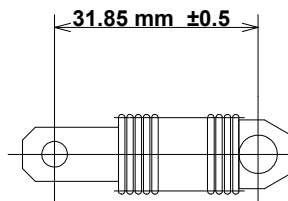
■ REVERSING BLOCK (MOTOR) (DOC. 573.045.050 OR 573.046.050)

Disassemble cover (32) by removing 3 screws CHc (33).

Dissociate female yoke (12) from reversing block lever (9).

Dismount reversing block by removing screws (10 and 8).

Reinstall the new reversing block in the reverse order of the disassembly sequence.

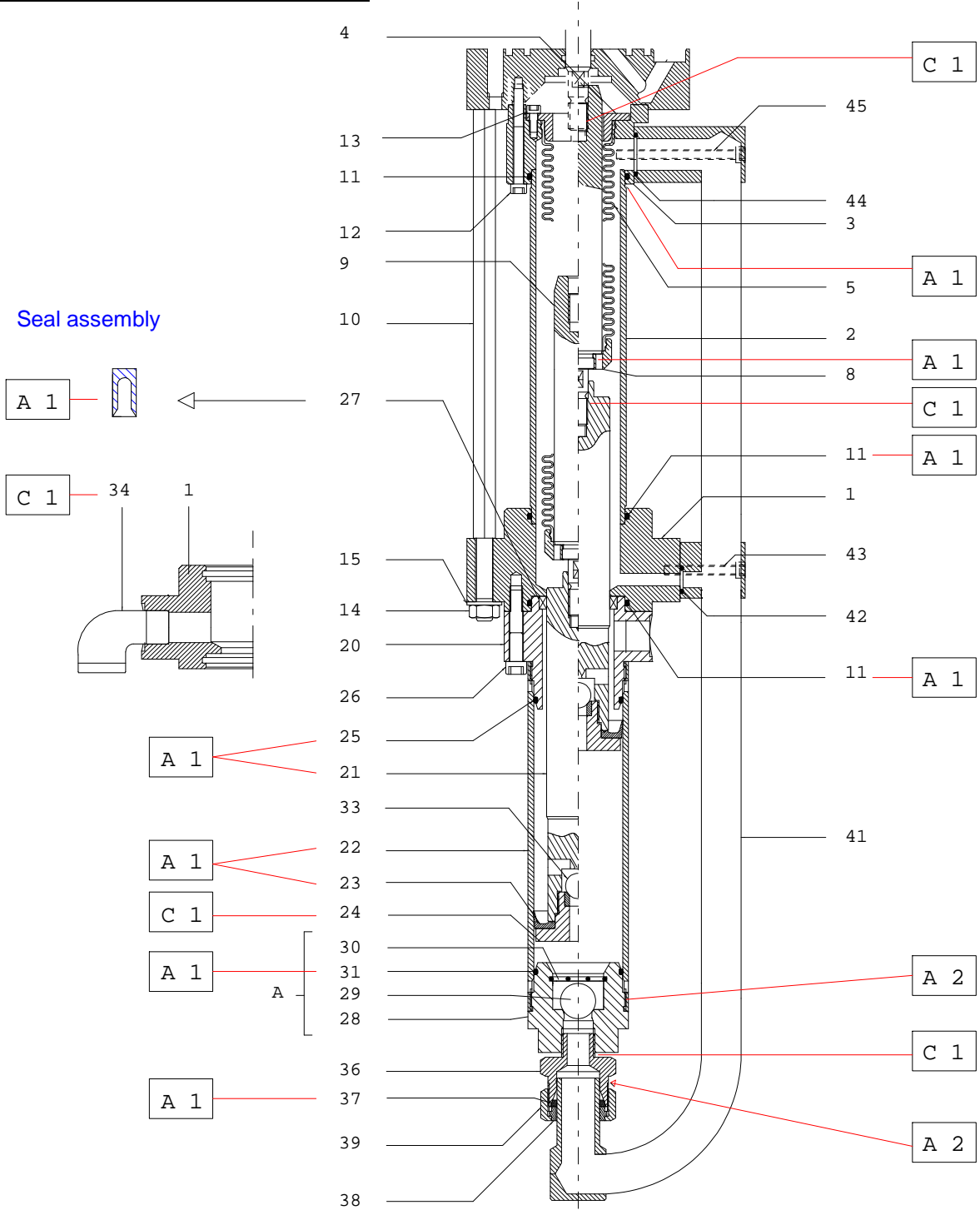


⚠ **CAUTION** : The number of spirals must equally be distributed on each fastening parts in order to get the above dimension.

Before reassembling the different components :

- **Clean the parts with the appropriate cleaning solvent.**
- **Install new seals if it is necessary, after having lubricated them with PTFE grease.**
- **Lubricate the piston and the inside of the cylinder to prevent from damaging the seals.**
- **Install new parts if it is necessary.**

ASSEMBLY INSTRUCTIONS



Index	Instruction	Description	Part number
A1	PTFE grease	'TECHNILUB' grease (10 ml)	560.440.101
A2	Graphite grease	Graphite grease box (1 kg / 2.204 lb)	560.420.005
C1	Medium strength Aneorobic Pipe sealant	Loctite 577	