

LOW-PRESSURE PUMP

EOS 02-C85

TECHNICAL FEATURES

TRANSLATION FROM 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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1. DESCRIPTION

- Compact airspray pump.
- Low maintenance and ease of use

Recommended for :

- Supplying one or several spray guns,
- Paints and inks, Epoxy, Adhesives, Water-based (stainless steel version only)

2. TECHNICAL FEATURES

Motor type 340-2
 Pump body type C 85
 Theoretical pressure ratio 2/1
 Effective pressure ration 1,8/1

Wetted parts :

▪ Standard pump :

Hard chrome stainless steel, Stainless steel, Aluminium alloy

▪ Stainless steel pump :

Hard chrome, Stainless steel.

Tightness packings :

Polyethylene GT (upper cartridge).
 Acetal resin (exhaust valve seal).

Air motor stroke.	45 mm	2"
Air motor section	35 cm ²	35 cm ²
Hydraulic section	19 cm ²	19 cm ²
Delivery per cycle (double acting pump)	85 cc	3 fl.oz
Number of cycle	12 per liter	12 per liter
Fluid delivery (30 cycles)	2.6 l	2.6 l
Maximum air operating pressure	6 bar	87 psi
Maximum discharge pressure	10 bar	145 psi
Weighted sound pressure (LAeq)	76 dBa*	76 dBa*
Maxi. operating temperature	60°C	140°F
Weight	5.5 kg	12 lbs

* 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

		Bare pump	Pump assembly
Air	Inlet	Female 1/4 NPS	Female 3/8 BSP (air supply)
	Outlet	-	Male 1/4 NPS (spraying air)
Material	Inlet	Male 18 x 125	Suction rod
	Outlet	Female 1/4 NPS	Male 3/8 NPS

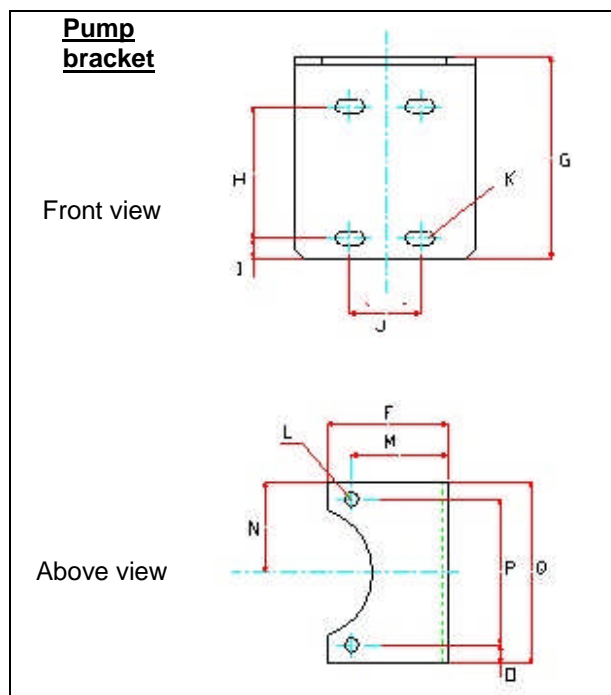
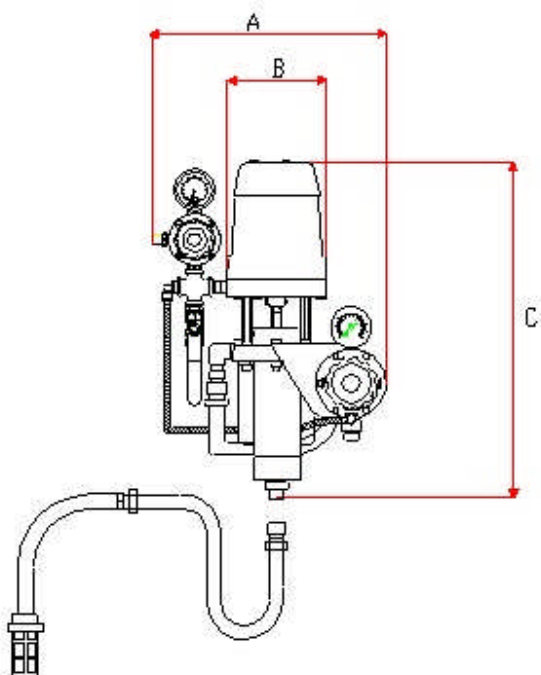
▪ HOSES WITH FITTINGS

Pump air supply hose (minimum Ø for a 5m / 16.5 ft length) : Ø 10 mm / 3/8" dia

Fluid hose (between pump fluid outlet and spray gun) : 7 mm ID / 1/4" dia or 10 mm ID / 3/8" dia

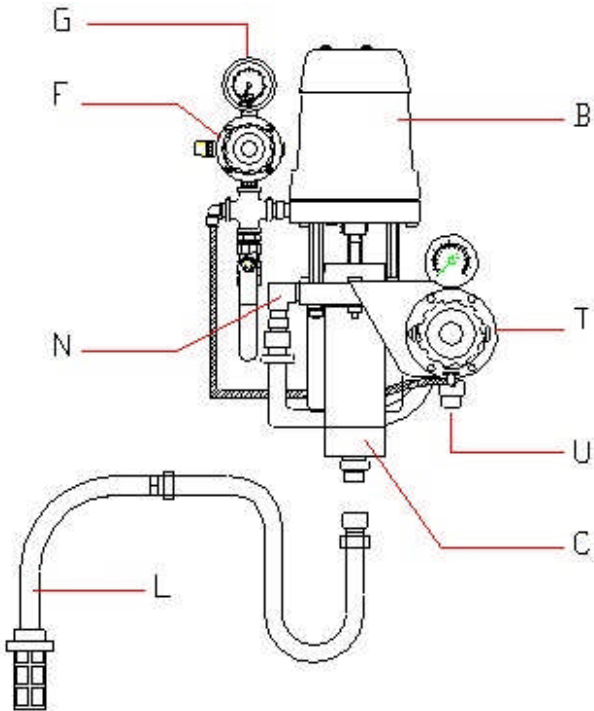
Air hose (between "GUN AIR" regulator and spray gun) : 7 mm ID / 1/4" dia or 8 mm ID / 5/16" dia

▪ **DIMENSIONS**



Ind.	mm	"	Ind.	mm	"	Ind.	mm	"	Ind.	mm	"
A	280	11	B	120	4.8	C	410	16.2	F	60	2.36
G	100	3.9	H	65	2.56	I	10	0.4	J	35	1.38
K	Ø 7x15	0.27x0.6	L	Ø 7	0.27	M	48	1.9	N	45	1.8
O	9	0.35	P	72	2.83	Q	90	3.6			

▪ **WORKING : PUMP WITH 2 REGULATORS**



The pump consists of :

- an alternating air motor (B).
- an hydraulic section (C) mechanically coupled to the motor (B).

The motor is directly supplied with compressed air from regulated network (maximum 6 bar / 87 Psi).

While doing its alternating movement, the motor drives the piston of the hydraulic section (C). The fluid is drawn (L) and forced under pressure into (N).

The pump is equipped with a fluid regulator (T), the material flows out in (U) → thus the fluid flow rate adjustment is done by means of this fluid regulator.

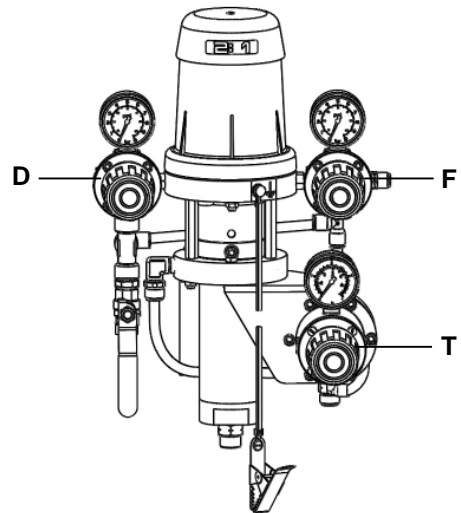
The gun air pressure is regulated with the air regulator (F) and this pressure can be read on the gauge (G).

➡ The pump air supply pressure must exceed by 1.5 to 2 bar / 22 to 29 psi (minimum) the fluid pressure indicated by the fluid regulator (T).

▪ **WORKING : PUMP WITH 3 REGULATORS**

- 1 - Screw the air regulator (D) with the knob (pantone 382 colour) to adjust the air supply pressure of the air motor of the pump.
- 2 - Screw the fluid regulator (T) to adjust the fluid flow at the outlet of the pump.
- 3 - Screw the air regulator (F) with the black knob to adjust the atomizing air supply pressure of the gun.

➡ The pump air supply pressure must exceed by 1.5 to 2 bar / 22 to 29 psi (minimum) the fluid pressure indicated by the fluid regulator (T).

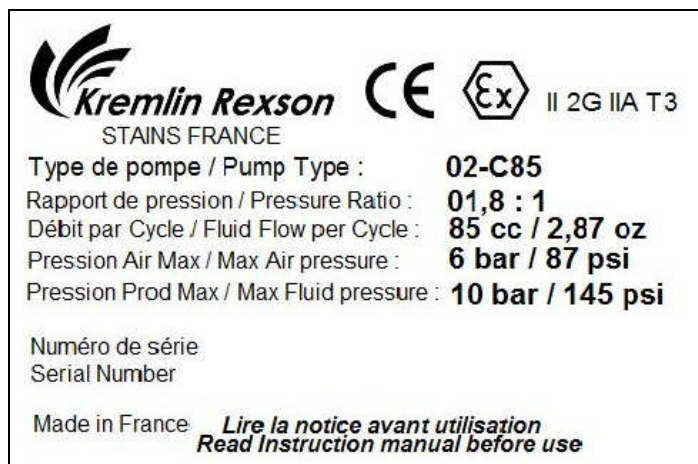


3. INSTALLATION

The pumps are designed to be installed in a spray booth.

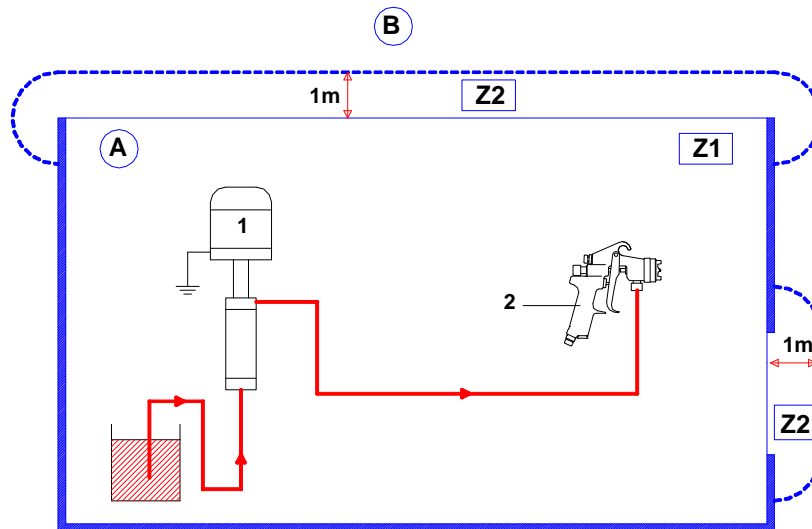
■ DESCRIPTION OF THE LABEL MARKING

Marking in accordance with the ATEX Directive



KREMLIN REXSON logo	Manufacturer label
STAINS FRANCE	Address of the manufacturer
TYPE	Pump model
II 2 G	II : group II 2 : class 2 Surface equipment meant to area where explosive atmospheres due to gas, vapours, mists are liable to appear from time to time in usual operating G : gas
IIA T3	IIA : Gas group for the equipment category T3 : Maximum temperature surface : 200°C / 392°F
Type de pompe / Pump type	Pump version
Rapport de pression / Pressure ratio	Pump pressure ratio
Débit par cycle / Fluid flow per cycle	Fluid section capacity
Pression air max. / Max. air pressure	Maximum pump motor air supply pressure
Pression prod max. / Max. fluid pressure	Maximum fluid pressure at the outlet of the pump
Numéro de série / Serial number	Number given by KREMLIN REXSON. The four first numbers indicate the manufacturing year.

■ INSTALLATION DIAGRAM



Ind.	Description
A	Explosive area area 1 (Z1) or area 2 (Z2) : spray booth
B	Non explosive area

Ind.	Description
1	Pump
2	Spray gun



The 1 m / 39.37" distance indicated in these diagrams is given for information purposes only and hold harmless to KREMLIN REXSON. The user is responsible for the extraction and conditioning of the painting area where the equipment is used, for working conditions conditions (refer to EN 60079-10 standard). The 1 m / 39.37" distance may be modified if trials carried out by the user deem this necessary.