



INSTRUCTION MANUAL

LOW PRESSURE REGULATOR WITH MANUAL DRIVE AND INTEGRATED PILOT VERSION : BP 6 - 0,5/4

Manual : 1405 573.025.112

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Modif. Drawing, § 2 & 4

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).

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

ADDITIONAL DOCUMENTATIONS

SPARE PARTS :

LP fluid regulator

Doc. 573.027.050

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INSTRUCTION MANUAL

**LOW PRESSURE FLUID REGULATOR
WITH MANUAL DRIVE
AND INTEGRATED PILOT - VERSION : BP 6 - 0,5/4**

Dear Customer,

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

To obtain the best result, safe and efficient operation of your equipment, we advise you to read and make yourself familiar with this instruction and service manual.

1. GENERAL SAFETY INSTRUCTIONS



WARNING : Any misuse of the equipment or accessories can damage them, result in serious body injury, fire or explosion hazard and reduce the equipment working life. Read, understand and comply with the safety instructions hereafter.

The personnel involved in operating and servicing this equipment must be aware of all safety requirements stated in this manual. The workshop supervisor must be certain that the personnel has perfectly understood the safety instructions and complies with them.

Read all instruction manuals as well as the tags of the equipments before operating the equipment.

Refer to local safety instructions and comply with them.

■ INSTALLATION REQUIREMENTS

➔ Ground the equipments.

Use the equipment only in a well-ventilated area to prevent from serious body injuries, fire and explosion hazards. Do not smoke in the spray area.

Never stock paints and solvents in the spray area. Always close the pots and the tins.

Always keep the spray area clean and free from debris (solvent, rags,...).

Read paint and solvent manufacturer's technical instructions.

Spraying of some materials may result in hazardous working conditions. To protect the operator, respirator mask, hand cream, glasses and hearing protective earplug are required (Refer to chapter "Safety equipment" of KREMLIN selection guide).

■ EQUIPMENT REQUIREMENTS

The operating pressure of these equipments are particularly high. Consequently, some precautions must be taken in order to prevent from accidents and from unsafe working conditions.

➔ Never exceed the components maximum working pressure of the equipment.

HOSES

Do not use hoses with a maximum burst-proof pressure less than four times the maximum service of the pump (see data sheet).

Be certain the hoses are not crimped, leaking and not unrolled.

Be certain hoses are in good conditions and showing no evidence of damage.

➡ **Use only air hose with static conductor to connect the pump with the spray gun.**

All fittings must be tight and in good condition.

PUMP

➡ **Ground the equipment (use the connection on the pump).**

Do not use any product or solvent incompatible with the pump components.

Use the appropriate solvent for the material being sprayed to increase the equipment working life.

GUN

Never wipe the end of the tip with the fingers.

Always depressurize air and hoses before carrying out any servicing on the gun.

Never point the spray gun at anyone or at any part of the body.

PRESSURE REGULATOR

➡ **Mount conductive hoses upstream and downstream of the regulator.**

■ MAINTENANCE REQUIREMENTS

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

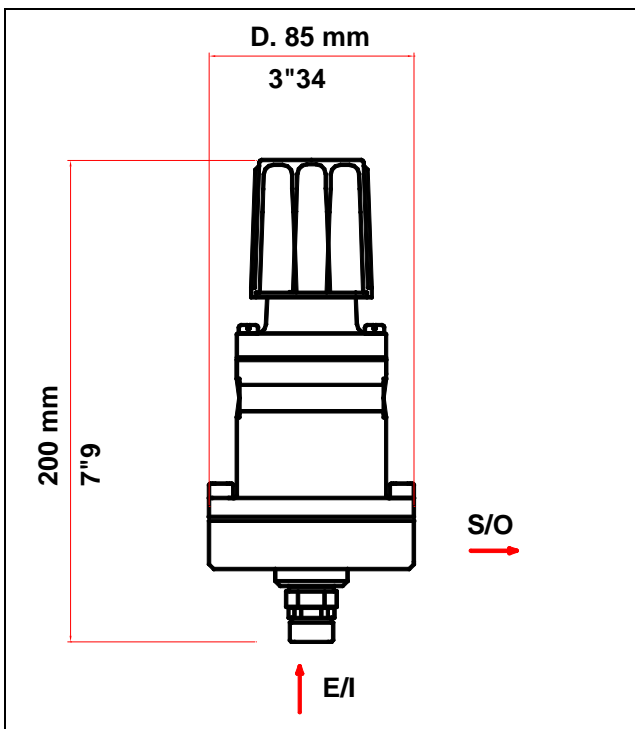
➡ **Never modify these equipments.**

Never modify these equipments. Check them daily, keep them in a good condition and replace the worn parts **only with KREMLIN parts.**

Before cleaning or removing components of the equipment, it is compulsory :

- to stop the pump by shutting of the compressed air supply,
- to open the pump drain valve,
- to point the gun into an appropriate waste receptacle and press the gun trigger to depressurize the system.

2. DESCRIPTION



The LP fluid regulator with integrated pilot enables to allow a constant pressure.

Thanks to its diaphragm, the fluid regulation is accurate.

This regulator is designed for an easy flushing.

The adjustment is carried out regulating the integrated driving air pressure by means of a pantone 382 colored knob.

The fluid pressure is read on the gauge mounted on the pilot body.



NOTA :

To ensure a larger lifetime of your equipment and to obtain the best flow rate possible, you must mount the regulator in vertical position.

3. TECHNICAL FEATURES

| | | |
|-------------------------------------|--|---|
| Weight | 1 600 g / 3.53 lbs | A package is supplied with the regulator. It consists of 3 adaptators and of a glue tube. Choose the adaptator (M 18 x 125, 3/8 NPS or 3/8 BSP), apply glue on the treading of the inlet fitting and screw the adaptator. |
| Fluid inlet with adaptator (E/I) | M 1/4 BSP | |
| Fluid outlet (S/O) | F 1/4 BSP | |
| Gauge port | F 1/4 BSP | |
| Bracket support - hole Ø | 9 mm / 0.35" | |
| Pressure range : | | To get an excellent regulation, the difference between the inlet/outlet pressure must not exceed 1.5 bar / 22 psi. * You can modify the outlet pressure adding a spring supplied with the regulator to the spring mounted on the standard version. |
| - Inlet pressure | maximum 10 bar / 145 psi | |
| - Outlet pressure : | | |
| standard version | From 0,5 to 4 bar / From 7.25 to 58 psi | |
| modified version* | From 0,5 to 6 bar / From 7.25 to 87 psi | |
| Fluid flow rate | From 200 to 1500 cm ³ /mn | |
| Metals in contact with the material | Stainless steel Carbide PTFE | |

4. TROUBLESHOOTING CHART

| TROUBLE | CAUSE | SOLUTION |
|--|--|--|
| Overpressure at the fluid regulator outlet | Adjustment knob turned clockwise (full closed) | Turn adjustment knob counterclockwise. |
| | Improper fluid proofness between seat and ball | Clean or replace. |
| | Pressure too high upstream of the regulator | Decrease the pump air supply. |
| No material coming out from the regulator | Adjustment knob turned counterclockwise (full open). | Turn adjustment knob clockwise. |
| | Ball blocked on the seat. | Clean and reinstall. |
| Irregular flow rate | Too much pulsation in the fluid network. | Clean fluid network. |
| | Improper proofness between seat and ball. | Clean or replace. |
| | Regulator in horizontal position | Mount the regulator in vertical position |

5. DISASSEMBLY

■ SEAT REPLACEMENT (3)

Unscrew the fluid inlet fittings (5 and 2)

Remove the conical spring (12), the ball (13) and the seal (6).

Remove the seat (3) and the flat seal (4).

Change the seals.

Clean the parts with the appropriate cleaning solvent.

Reinstall parts in reverse order. Be certain flat seal is properly installed.

➡ **The seat is reversible. When servicing the first time, it can be installed upside down. It will have to be replaced only at second servicing.**

■ FLUID DIAPHRAGM REPLACEMENT (7)

Unscrew the 6 screws (9).

Remove the pilot body (15).

Unscrew the nut (8).

Remove lower washer (10).

Remove the diaphragm (7).

Clean parts with the appropriate cleaning solvent.

Reinstall parts in reverse order.

■ AIR DIAPHRAGM AND SEAT REPLACEMENT (28)

Unscrew the 4 screws (21)

Take off the hat (22), the spring (32).

Remove the diaphragm and the seat (28).

Clean the parts with the appropriate cleaning solvent.

Reinstall the whole in the reverse order of the disassembly.