SAMES KREMLIN

DOCUMENTATION

LOW PRESSURE FLUID REGULATOR AIR OPERATED

LP 6 - 0.5/4

Manual : 582.151.110-UK - 1912

Date: 16/12/19

Supersede :

Modif.:

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).

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INSTRUCTION MANUAL

LOW PRESSURE FLUID REGULATOR
AIR OPERATED
MODEL : 6 - 0,5/4

Manual ref : 1912 573.009.112

TRANSLATION FROM THE ORIGINAL MANUAL

Date : 06/12/19 - Supersede : 21/09/10 - Modif. Update

Dear customer,

We thank you very much for purchasing an accessory from SAMES KREMLIN range.

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

1. SAFETY INSTRUCTIONS

- The personnel involved in operating and servicing this equipment must be aware of all the 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.
- Use the equipement only in a properly ventilated area to maximize health care. Any misuse of the spray équipment or accessories can damage them and result in serious body injury, fire or explosion hazard.
- This equipment is installed on installations operating under low pressures. Check the maximum pressure of the fluid pressure supplied upstream of the regulator.
- All fittings must be tight and in good condition.
- Before cleaning or removing components of the equipment, it is compulsory :
  - to stop the pump by shutting off the compressed air supply.
  - to open the drain valve.
  - to point the spray gun into an appropriate waste receptacle and press the trigger to depressurize the system.

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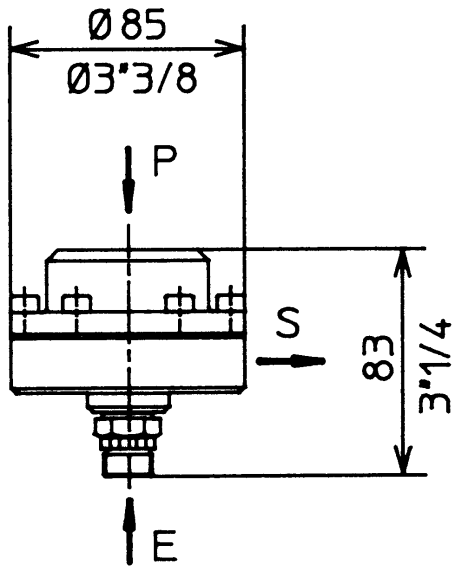
2. TECHNICAL CHARACTERISTICS



The LP regulator enables to regulate a constant pressure.

Thanks to its large diaphragm, the fluid regulation is accurate.

This regulator is designed for a full and easy flushing.

The adjustment is carried out by setting the air pilot. The fluid pressure (outlet) being similar to the air pressure (pressure ratio 1) read fluid pressure on the air gauge.

To get a better adjustment of this fluid regulator, select an accurate air regulator.

Weight	1 000 g / 35 oz	At the fluid inlet, install one of the fittings supplied with regulator (fitting M 18 x 125 or 3/8 NPS or 3/8 BSP). When mounting the fitting apply some Loctite 222 on thread.
Fluid inlet	Supplied with M 1/4 BSP+ fitting according to requirements	
Fluid outlets (two)	F 1/4 BSP	
Air pilot inlet	F 1/8 BSP	
Bracket support - Hole Ø	9 mm / 11/32"	
Maximum fluid pressure - Inlet - Outlet	 6 bar / 87 PSI 4 bar / 58 PSI	To get an excellent regulation, the difference between inlet/ outlet pressure must not exceed 1.5 bar / 22 PSI.
Maximum air pilot pressure.	6 bar / 87 PSI	
Fluid flow rate range.	200 to 1500 cc/mn / 12 to 92 cu.in	
Metals in contact with the material.	Stainless steel Carbide PTFE	

3. TROUBLESHOOTING CHART

TROUBLE	CAUSE	SOLUTION
Overpressure at the fluid regulator outlet.	Air pilot pressure too high.	Decrease air pilot pressure.
	Improper fluid proofness between seat and ball.	Clean or replace
	Material pressure too high upstream of the regulator.	Decrease the pump air supply.
No material coming out from the regulator.	Insufficient air pilot pressure.	Increase air pilot pressure.
	Ball blocked on the seat.	Clean and reinstall.
Irregular flow rate.	Too much pulsation in the fluid network.	Check fluid network.
	Improper proofness between seat an ball.	Clean or replace.
Material leakage along the regulator hat.	Defective diaphragm.	Replace.
	Loosen lower spring support.	Tighten.

4. DISASSEMBLY

■ SEAT (3) REPLACEMENT

Unscrew fluid inlet fittings (5 and 2)

Remove conical spring (17), ball (18) and seal (6).

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

Replace seals.

Clean parts with white spirit solvent.

Reinstall parts in reverse. Be certain the flat seal is properly located.

➲ **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.**

■ DIAPHRAGM (7) REPLACEMENT

Unscrew the 6 screws (9).

Remove hat (21).

Unscrew nut (8).

Remove lower washer (10).

Remove diaphragm (7).

Clean parts with white spirit solvent.

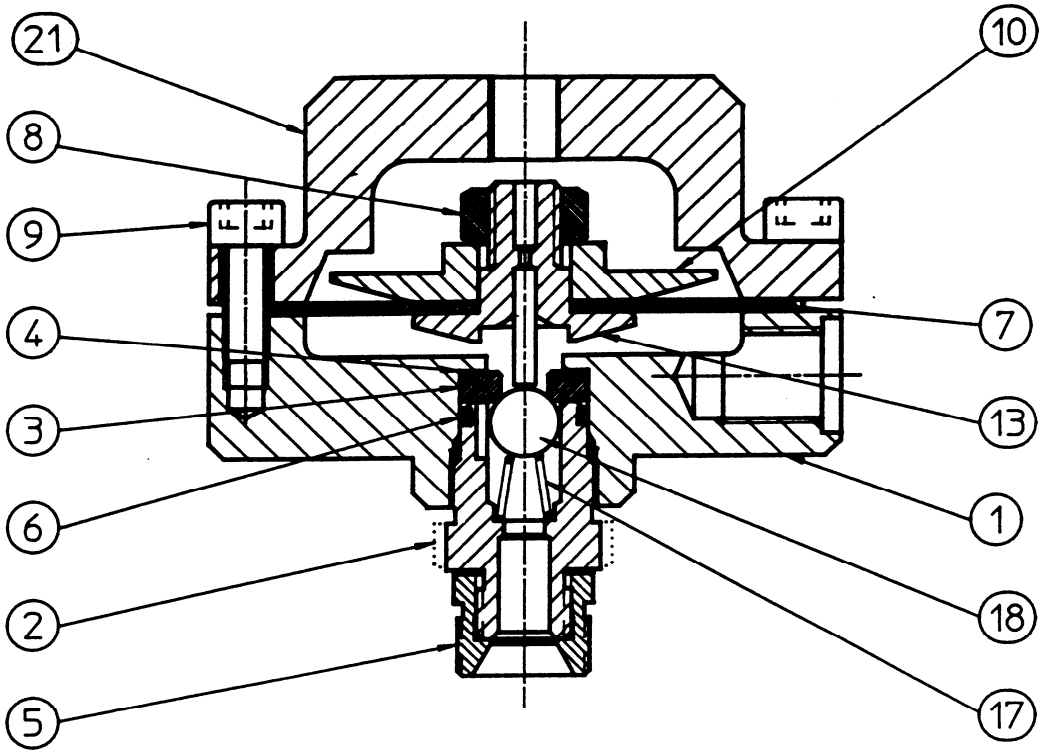
Reassemble parts in reverse.

SAMES KREMLIN

Doc. 573.009.112 Date/Datum/Fecha : 06/12/19 Annule/Cancels/ Ersetzt/Anula : 06/07/00	**Modif. / Änderung :** Mise à jour / Update / Aktualisierung / Actualización	**Pièces de rechange** **Spare parts list** **Ersatzteilliste** **Piezas de repuesto**

LOW PRESSURE FLUID REGULATOR (AIR OPERATED) - MODEL 6 - 0.5/4 :

- Stainless steel P.N° : 155.610.050



Ind.	Part number	Description	Qty	Ind.	Part number	Description	Qty
1	055 610 001	Lower body	1	8	953 010 021	Nut, HM 10	1
2	055 610 002	Fitting, valve	1	9	933 151 196	Screw, CHc M 6 x 16	6
3	055 610 004	Seat	1	10	055 170 006	Lower washer	1
4	055 610 005	Flat seal	1	13	155 610 003	Needle assembly	1
5	---	Fitting (fluid inlet) :	1	17	050 312 225	Conical spring	1
-	029 020 007	. 18 x 125 M, stainless steel	1	18	907 414 223	Ball, Ø 9,52 / 0.37"	1
-	029 020 008	. 3/8 NPS M, stainless steel	1	21	055 175 055	Hat	1
-	029 020 009	. 3/8 BSP M, stainless steel	1			**OPTIONAL**	
6	050 040 314	Seal, PTFE	1		016 200 010	Bracket	1
7	055 170 005	Diaphragm	1				