



Avenue des Nids de Poules – 85460 L’Aiguillon-Sur-Mer - France
Tel : +33(0)2.51.30.44.00 – contact@erfi-fr.com

AGS / AGE / AGEM

ADJUSTMENT AND STARTUP INSTRUCTIONS FOR THE MIXER
(Pneumatic controlled mixer)

ANALYSIS AND TROUBLESHOOTING





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ADJUSTMENT

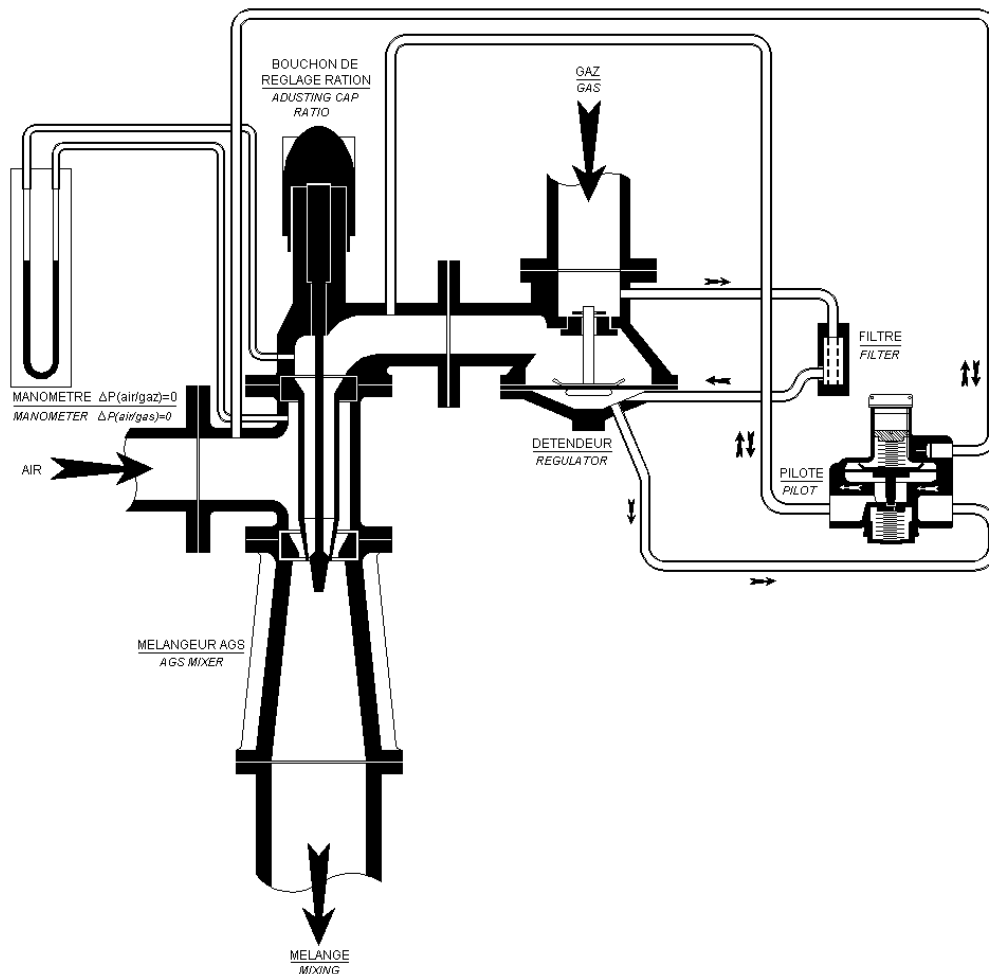
- Measure the combustion air pressure at the mixer inlet on the PP (pressure tap) air valve on the pressure switch or on the PP air valve on the '0' manometer
- Set the minimum air pressure switch to:
Air pressure – (minus) 20mbar (0.28psi)
- Set the gas pressure downstream of the primary gas regulator to:
Air pressure + (plus) 50mbar (0.71psi)
- Set the maximum gas pressure switch to:
Gas pressure set in (c) + (plus) 20mbar.
- Set the mini gas pressure switch to:
Gas pressure set at (c) – (minus) 20mbar (0.28psi).
- Set the maxi mixture pressure(s) switch(es) to:
200mbar (2.8psi).
- Connect the '0' manometer to the PP air and gas valves on the mixer.
- Check that the micrometric screw of the air/gas ratio of the mixer is fully tightened (minimum gas flow)
- Check that the minimum/maximum settings of the control zones have been made according to the "Control Zone Settings" manual and that they are correct.
Check that the temperature of the furnace or feeders is above 800°C (glassware).

START-UP

- Switch on the combustion air fan and then activate the motorized gas safety valve.
- To check with the pressure gauge '0' balance of pressure (air pressure = gas pressure) if not to carry out balancing by actuating the screws of the pilot of the mixer.
 - Turn clockwise = less gas
 - Turn anticlockwise = more gas
- When balancing is reached, to gradually loosen the micrometer screw of mixing screw by action on the adjusting cap (with key locking) located at the mixing head until obtaining the good combustion to the burners It will be then necessary to readjust the '0' with middle power by successive approaches.

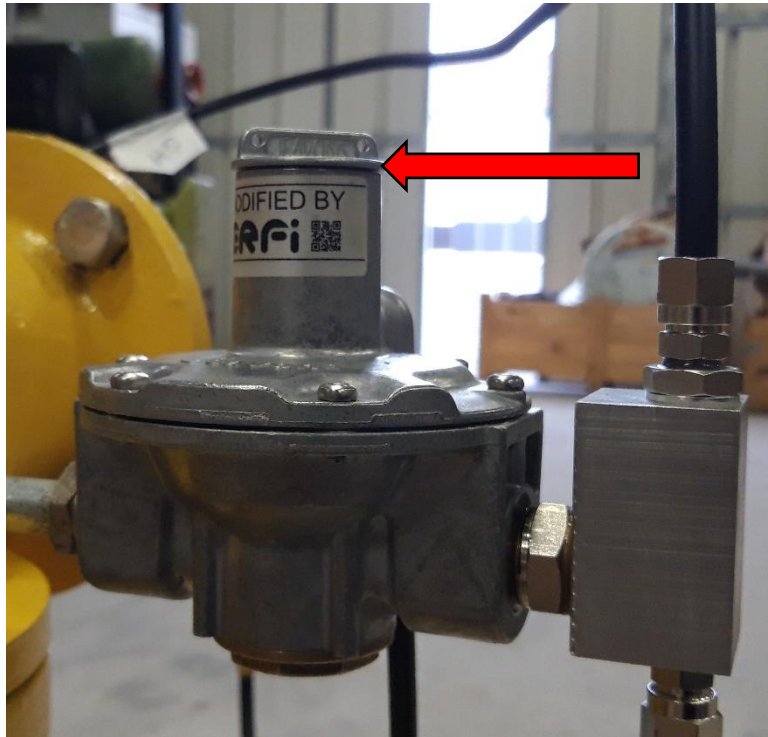
When these adjustments have been made, the AGS mixer will maintain the air/gas ratio constant within its range of operation.

It controls ratio air/gas (Great flexibility and constancy of the ratio with a range of 5:1 on the power).



COMMENTS

- Check that the "Jeavons" cap is always tightened properly



- Check the perfect condition of the internal seal and replace it if necessary





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ANALYSIS AND TROUBLESHOOTING OF AGS MIXERS

Breakdowns on AGS mixers are practically non-existent themselves.

The causes of breakdowns are generally due to the auxiliary material (fan, pressure switch, solenoid valve, etc.) or because accidents (piping of the pilot damaged, explosion with the light-back, gas charged impurities or oils, etc.).

DEFAULT	INVOLVED MATERIAL
Lack of Air	Fan, filter
	Pressure switch
	Pipe, hose, etc.
Lack of Gas	Distribution pressure
	Gas filter
	Pressure switch (see above : lack of air)
	Solenoid valve gas safety
	Gas pressure setting (see paragraph (1-a) of the instruction for adjusting and starting the AGS mixer)
	Arrival of gas at mixture pressure reducer

After checking and if all the above parameters are correct then the mixture control loop in the AGS mixer will be responsible.

Check :

- The condition of the pilot pipe and its tightness
- The cleanliness of the filter and the calibrated leakage on the AGS regulator or the solenoid valve
- The external and internal tightness of the pilot (replace the pilot or the solenoid valve regulation)

If the gas leak continues, dismantle the regulator and check the membrane and the other internal parts (sticking or oxidation)