

AL-204



Aluminum Metal Analyzer

AL 204 Aluminum Metal Analyzer



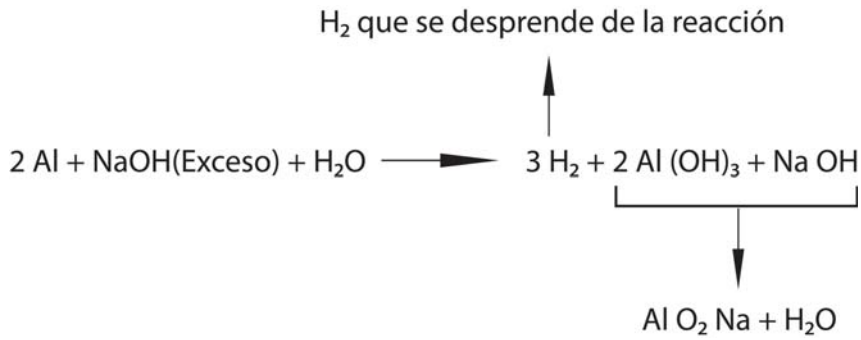
The AL 204 equipment has been specially designed for fast and accurate determination of the concentration of aluminum in metal slags. Through the analysis of gases resulting from the attack of the sample with sodium hydroxide (NaOH) can be obtained quickly - in just 10 minutes - and accurate - accuracy >99% - the percentage of aluminum content in the sample.

In comparison to the traditional method with which this type of analysis was performed, the **AL 204** represents a qualitative leap in many ways:



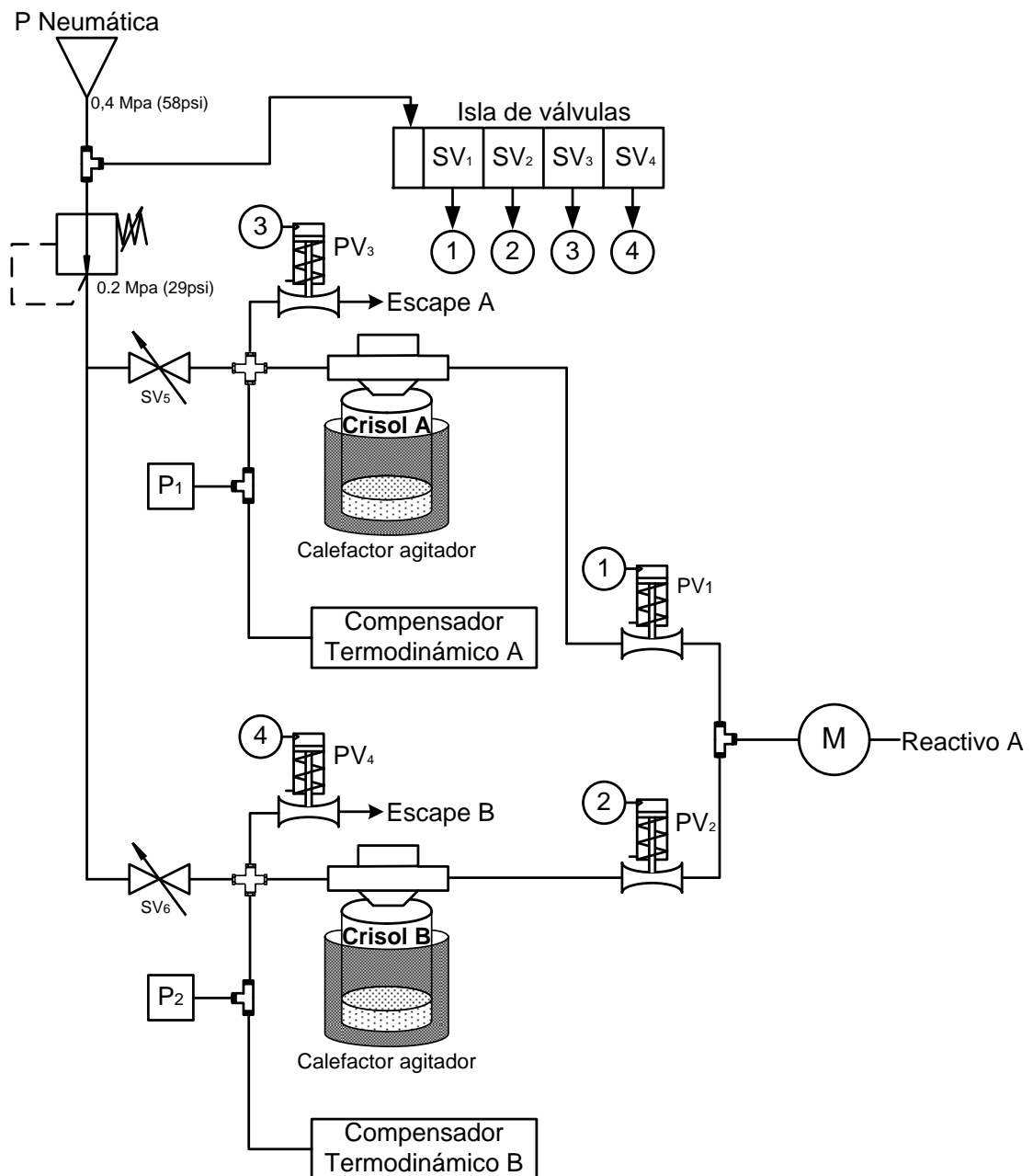
- **Time:** compared to the traditional method, from hours to minutes - 10 minutes per analysis -.
- **Accuracy:** you can obtain certainty on the aluminum content of your sample with an accuracy of less than 1%.
- **Comfort:** The entire procedure is performed directly in your computer, collecting the results in a specially designed software from which you can perform statistical analysis, averages, standard deviation. You can see the results in graphics directly on the screen software to make quick comparisons.
- **Safety:** the handling of corrosive liquids is reduced to a minimum.
- **Versatility:** in addition to managing the data directly in your specific software, the results are exportable to settings such as Access or Excel.

Principio



The H₂ released from the reaction, kept sealed under a constant volume and stable temperature conditions, will generate a pressure increase proportional to the percentage of metallic aluminium in the sample.

Circuito de Análisis AL 202





Working method

Place the weighed sample in a crucible and introduce a stirrer, insert all into the analyzer and close the head

Automatically - by a peristaltic pump - the analyzer will dispense an excess of reagent A to the sample, to start up the reaction.

At the same time, the crucible heating system and the stirring system will be switched on- these will remain operative until the end of the analysis.

The end of the analysis will be determined by a preset analysis time or else automatically - once the pressure may remain stable for a certain period of time.

The Unit will compensate the temperature - automatically - to determine the result in an accurate manner.

Specifications

- Crucible temperature control.....	0 - 90°C +/- 0,5°C P.I.D. type.
- Pressure detector.....	0 - 5000 mbar Resolution 1 mbar Accuracy > 0,5%
- Maximum working pressure	2000 mbar
- Analyzer:	
Accuracy	< 1%
Resolution	0,01%
Range	0 - 100%
Maximum sample weight	5gr 0,5gr - when pure
- Supplies	
Compressed air	3kg/cm ²
Power supply	115 - 220 +/- 15% 500W maximum
Reagent	11,25 molar NaOH solution
- PC including Windows + software AL 204	