

VLM Product Data Sheet

VLM Manual Gas Dosing System for the Kesternich Test – KES (EN ISO 6988)



Order Information

Examples of Chambers with KES:

CON 300-FL AIR KES

Article number: V.702.261.001 +
accessory V.851.110.075

CON 400-FL AIR CWC KES

Article number: V.701.361.001 +
accessory V.851.110.075

CON 1000-FL AIR CWC AWRP KES

Article number: V.705.562.021 + +
accessory V.851.110.075

CCT 400-FL VDA-I KES

Article number: V.731.362.121 +
accessory V.851.110.075

CCT 1000-FL VDA-I KES

Article number: V.735.362.121 +
accessory V.851.110.075

These are only a few examples of test chambers being fitted with the manual gas dosing system for the Kesternich test. Many more combinations are possible. Please contact us for additional information.

Sales & Support:

 03 20 50 45 53

Monday to Friday

8:30 am – 17:30 pm

Brant-Industrie

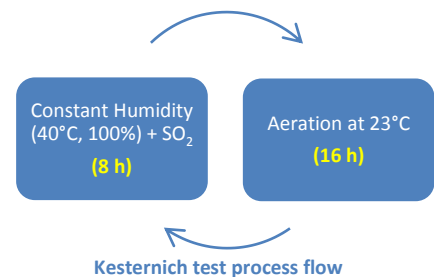
14 bis place de la République

59260 Hellemmes

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Applicable Test Standards

- ✚ EN ISO 6988
- ✚ DIN 50018
- ✚ ASTM G 85



Product Description

Manual gas dosing system for the Kesternich test (KES) in SO₂ environment can be fitted to virtually any VLM test chamber (except for the SAL range) and regardless of the controller used. However for the cost-effective reasons only the smaller test chambers belonging to the VLM low-range (CON, CON-SAL and CCT) featuring Jumo dTRON and Jumo Imago controller are normally equipped with this option. This flexibility is possible due to the fact that the KES system operates completely independent from the process controller built into the test chamber.

The operation of the KES gas dosing unit is quite simple. At the beginning of the Condensation test the specified volume of SO₂ is injected from the bottle into the lower part of the glass cylinder. Under the weight of the Paraffin oil in the upper part of the cylinder the gas is displaced into the test chamber.

Customer Benefits

- ✚ Cost effective way of conducting the Kesternich test
- ✚ High flexibility in choosing the basic type of the test chamber – the KES system operates in combination with (almost) all chamber types and all process controllers
- ✚ User friendly operation
- ✚ Modular design of VLM test chambers allows easy adding of the KES option long after the chamber has been commissioned



Front and side view of the glass cylinder for manual gas dosing



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Accessories for conducting KES



SO₂ gas inlet

Safety

SO₂ is a poisonous gas and for this reason is the safety of the operating personnel of utmost importance. It is for this reason recommended that:

- ✚ tests are conducted in a good ventilated room
- ✚ the bottles with SO₂ should be kept in closed containers made of special, fire-resistant material specially designed for this purpose (VLM can provide this item)

Process Control

- ✚ The standard Kesternich test consists of two phases within one day cycle from which one features the introduction of the gas (SO₂).
- ✚ The standard gas dosing volume for Kesternich test is 2 L per test cycle (one test cycle takes typically 24 h).

Notes: