

KES

Testing Method for smoke Point of Petroleum Products

KES T – L387

(EST.) 1990 – 11 – 27

Contents

1. Scope of Application
2. Outline of Testing Method
3. Test Equipment
4. Equipment Preparation
5. Standard Sample Manufacturing
6. Sample Preparation
7. Equipment Verification
8. Operation
9. Calculation and Report
10. Precision



1. Scope of Application

This shall be applied to the measurement method for smoke point of petroleum products such as heating oil.

2. Outline of Testing Method

Measure height of flame of regular shape without any smoke when firing sample with lamp with cover and cover.

3. Test Equipment

3.1 Lamp for smoke point measurement

Use that satisfying the following conditions with shape and dimension as shown in the figure 1,2 and 3.

- (1) Upper end of core guide should be the same height with zero point of scale.
- (2) Scale shall be black glass pipe and its center shall be indicated as white line at the spacing of 2mm at both sides.

Scale span shall be 0 ~ 50mm and its minimum is 1mm. Draw scale at every 5mm and scale number at every 10mm.
- (3) Flame regulator should be able to control flame smoothly up and down of sample dish and control distance is more than 10mm.
- (4) Widow of flame room should be bent glass lest double shadow should exist.
- (5) Sample should not leak at the thread part under sample dish.

Unit : 000

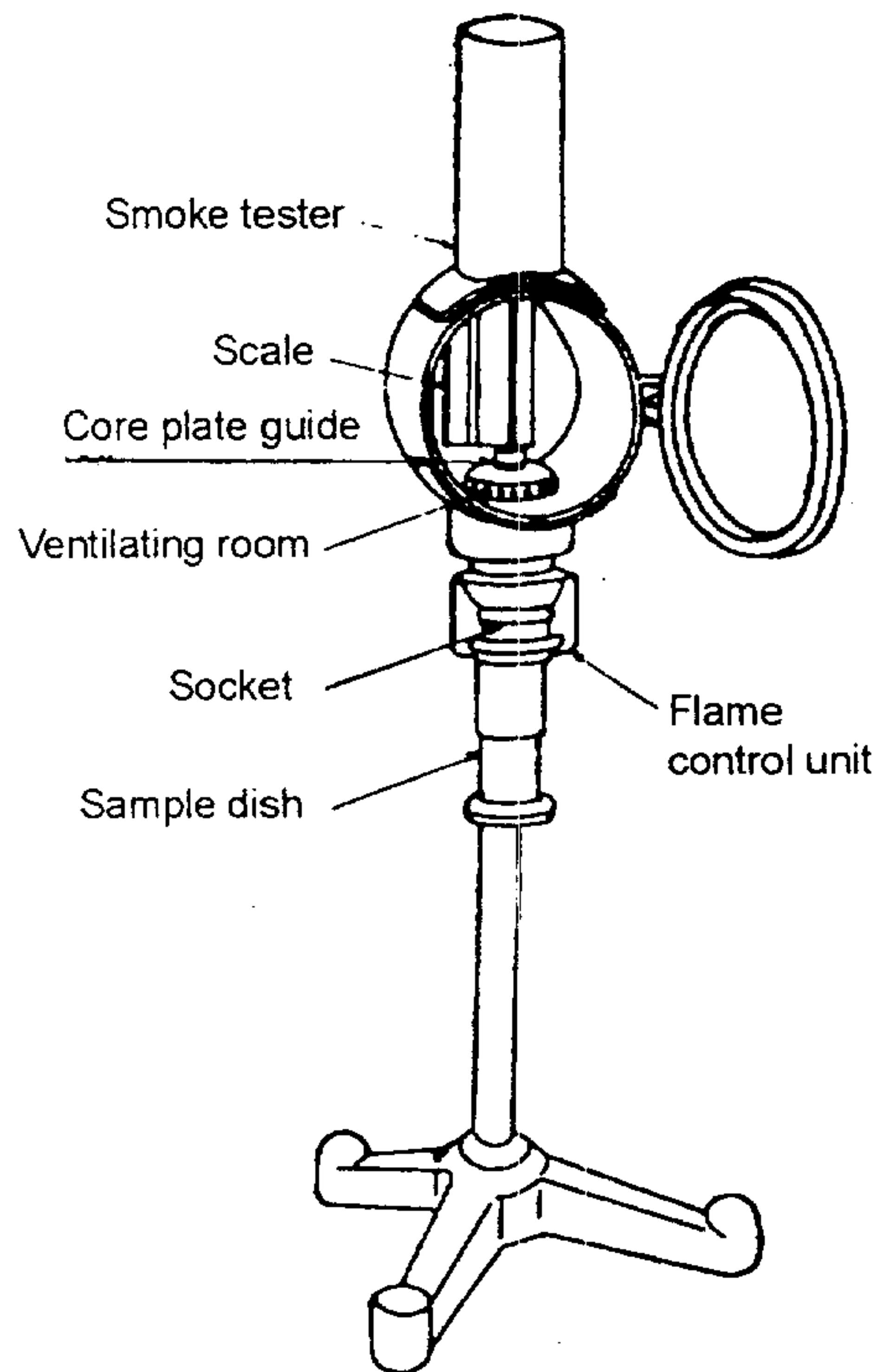


Figure 1. Smoke tester

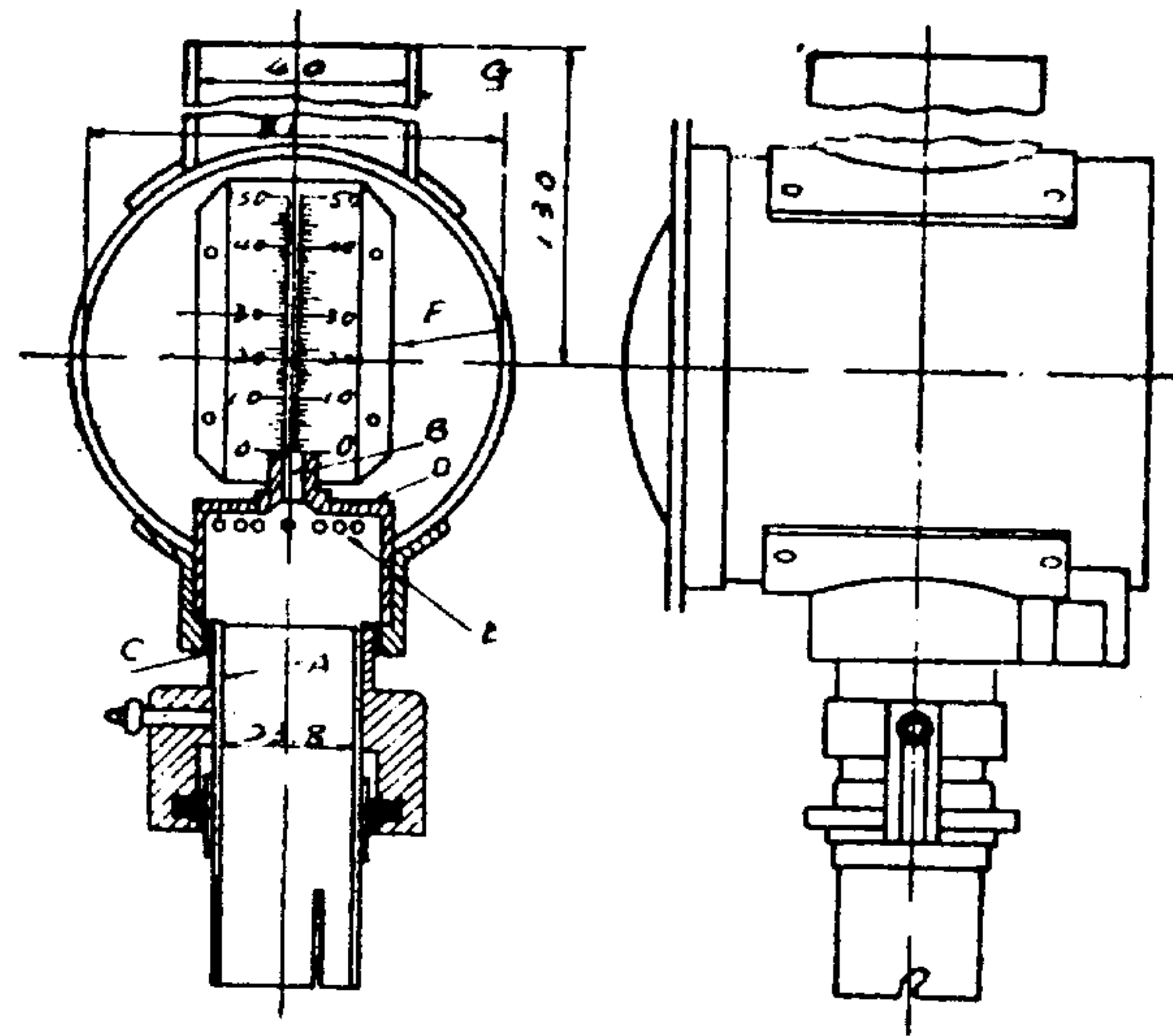


Figure 2 Burning room

Remark Use cobalt glass for keeping eyes when inspecting flame.