STUDIES ON THE P-V-T RELATIONS OF FLUIDS AT HIGH PRESSURE | I

The Compressibility of Ammonia

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Experimental

Method for gaseous ammonia

The measurements were made by the use of the constant volume type apparatus. The schematic diagram of the apparatus is shown in Fig. 1 and the cross-section of the high pressure gas pipet (A in Fig. 1) in Fig. 2.

The apparatus can be divided into two main parts. One is the high pressure system (steel-tubing side in Fig. 1) in which the P-V-T measurements for certain amounts of gaseous ammonia are made at

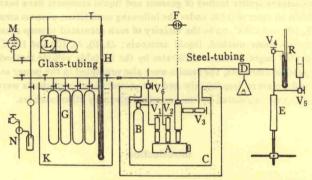


Fig. 1 Schematic diagram of apparatus for gaseous ammonia

A: High pressure gas pipet B: Sample cylinder

C: Thermostat

E: Oil injector

G: Glass cylinder

K: Thermostat

M: Vacuum gage

R: Mercury manometer

D: Pressure balance

F: Pilot lamp

H: Mercury manometer

L: Vacuum pump

N: Aspirator

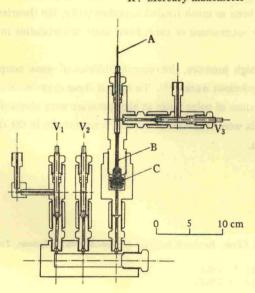


Fig. 2 High pressure gas pipet

A: Insulated electrode

B: Mercury

C: Bellows

V: Valves