

The present work is an attempt to show the inconsistencies of the main pressure scales in the particular case of an apparatus called "X type anvil", and to suggest possible values for the transition pressures of Bismuth 3 - 5, of Tin and Iron. The four most widely used pressure scales, called A, B, C, D, (table 2) have been chosen so as to be compared. Making the assumption that the transition pressures below 60 kbar are accurate, a linear extrapolation reveals a few inconsistencies. From the piston displacement recording, an analytical expression of the calibration curve is then derived. It is thus possible to evaluate the higher transition pressures.

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