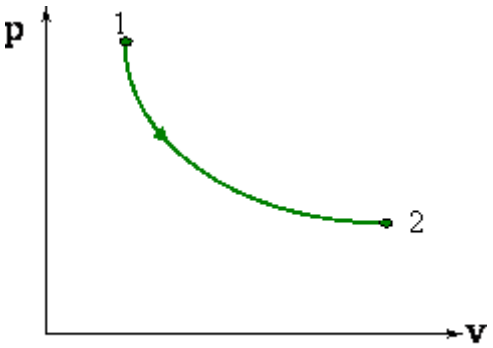
## Answer on Question #76581, Physics / Molecular Physics | Thermodynamics

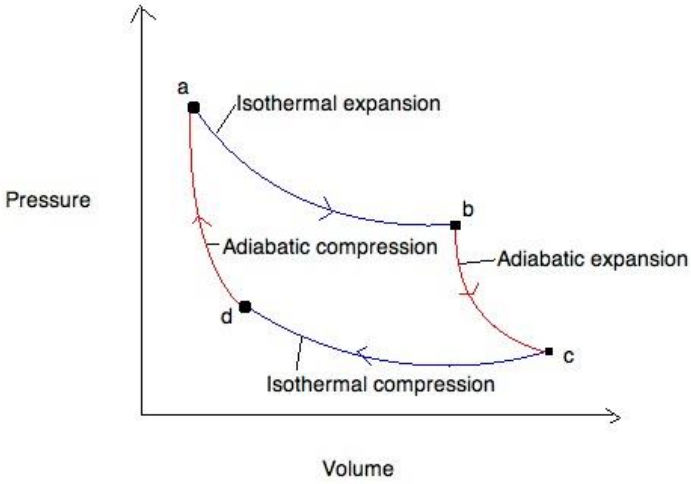
Represent the following processes on the PV diagram isomeric isochoric isothermal cycling

**Solution**

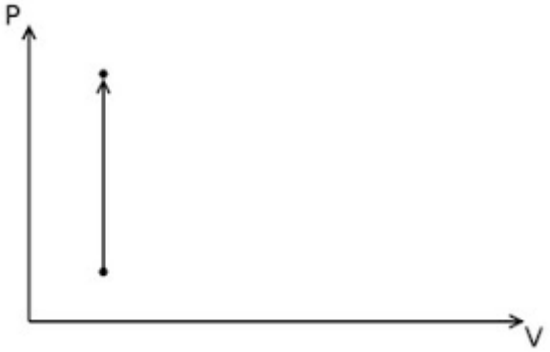
1. Isothermal process is the process at a constant temperature (T=const, $\delta T=0$), on the cycle graph (A→B, C→D)



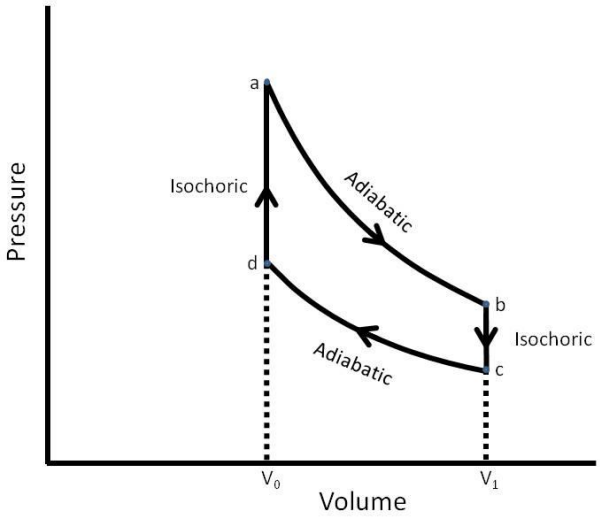

Isothermal Process



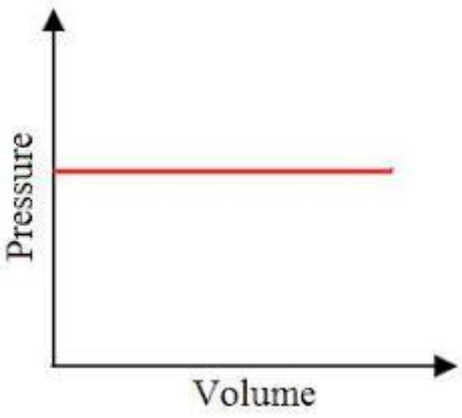

2. Isochoric process is the process at a constant volume (V=const, $\delta V=0$), on the cycle graph (b→c, d→a)



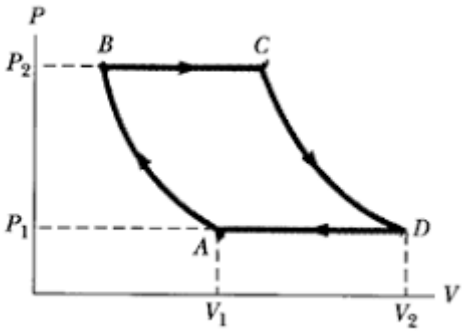

Isochoric process




3. Note: it seems like isobaric process is mentioned not isomeric as usually four processes are considered when the topic thermodynamic processes is learnt: isothermal, isochoric, isobaric and adiabatic processes.
   Isobaric process is the process where the pressure of the system stays constant (P=const, $\delta P=0$), on the cycle graph (B$\rightarrow$C, D$\rightarrow$A)




Isobaric process



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