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Types of Processes

A fixed mass (simple compressible substance) system can undergo different types of processes between state 1 and state 2: Some types are given below:

- **Isothermal** process - constant temperature $T = C$
- **Isobaric** process - constant pressure $P = C$
- **Isochoric** process - constant volume $V = C$
- **Adiabatic** process - no heat transfer $Q = 0$
- **Polytropic** process - $P\,V^n = C, \qquad 0 < n < \infty$
- **Quasistatic** process - consists of succession of equilibrium states
- **Reversible** process - initial state of the system can be restored
- **Irreversible** process - initial state of the system cannot be restored without observable effects in the system and its surroundings