


# Introduction to Thermodynamics of Irreversible Processes

**REVERSIBLE AND IRREVERSIBLE PROCESSES**

Expansion of an ideal gas in a cylinder having frictionless movable piston

External Pressure = P



GAS

**WORK DONE (W) =**

**Force × Distance**

**= (Pressure × Area) × Distance**

Area means area of cross section of the cylinder

**Work Done**

**= Pressure × (Expanded Volume)**

**Work Done = P<sub>external</sub> × (V<sub>final</sub> - V<sub>initial</sub>)**

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