

Types of loading in the piping system

ASME B31.1 Power Piping — Engineering Requirements for Power Piping
<https://niktrd.com/asme-b31-1>

Load group	Examples	Engineering control
Sustained	Pressure, pipe, fluid, insulation and attached-equipment weight	Longitudinal stress, support and stability
Displacement	Thermal expansion, nozzle movement and settlement	Stress range, flexibility and cyclic life
Occasional	Wind, seismic, valve impact, steam hammer and relief thrust	Occasional load cases and restraints
Dynamic	Vibration, pulsation and equipment excitation	Frequency, amplitude, supports and fatigue
Local	Nozzle loads, branches and discontinuities	Local reinforcement and stress control