Safety function

TYPES OF HARDWARE FAILURE

MAIN TYPES OF HW FAILURE

SAFE FAILURES

- **Example**

Leaks due to leakage defects.

DANGEROUS FAILURES

- **Example**

Stick-slip effect due to tightness. Opening more than 1 second.

NO EFFECT FAILURES

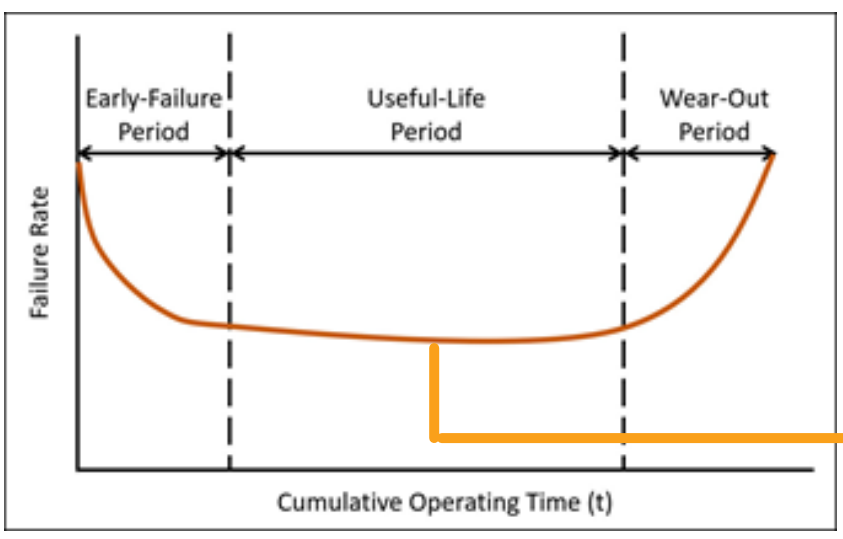
- **Example**

Intact in the spring, which has no effect on the safety function.

NO PART FAILURES

- **Example**

Bleed valve position indicator.



The failure rate λ(t) at time t is defined by the number of faults during Δt in relation to the number of operating components at time t.

$$\lambda(t) = \lambda$$