

OVERPRESSURE PROTECTION SYSTEM FOR CUSTOMER INSTALLATIONS



THE HAZARD:

Overpressure can cause pipes, vessels, and equipment to **EXPLODE**, leading to severe human consequences, property damage and release of product into atmosphere

COMMON CAUSES:

- ✗ Regulator Failure
- ✗ Heat Expansion of Gas
- ✗ Downstream Blockage
- ✗ Sudden/Overflow Surge
- ✗ Operator error (overflow)

PRIMARY OVERPRESSURE PROTECTION MECHANISMS:

Pressure Relief Valves (PRVs):



- Automatically release gas when pressure exceeds the set limit.
- Should be regularly inspected and maintained.



Rupture Discs:

- Single-use devices that burst at a set pressure to protect critical equipment.
- Used when PRVs might be unsuitable or as secondary protection.



YOUR ACTIONS TO PREVENT FAILURE:

- ✓ NEVER tamper with or bypass PSVs/RDs
- ✓ MONITOR system pressures and alarms
- ✓ REPORT any PSV/RD discharge immediately
- ✓ ENSURE regular inspection and maintenance
- ✓ ASSESS risks before making system changes or increasing flow

flow

