Relief Valves

In the pressure pumping industry, there is an inherent level of danger surrounding treating lines operating at high pressures. The potential for over pressure events exists, which could result in catastrophic failure of the treating line and result in SERIOUS BODILY INJURY, DEATH, OR PROPERTY DAMAGE. In order to avoid this type of failure, relief valves are commonly used on pressure pumping sites. Relief valves function by relying on the system's hydraulic pressure to overcome a preset force in the valve, which then expels fluid through an outlet. Weir offers a variety of relief valve styles to help protect against over pressurization.

We offer relief valves in two primary types: mechanical spring operated, and nitrogen operated. All of these valves are intended for emergency pressure relief for most well service applications. They are designed for operating temperatures from –30°C to +110°C (–22°F to +230°F). They are not suitable for fire protection and they are not intended for continuous flow.

All of these valves are designed for liquid flow. Acceptable media include cement, acidizing fluids, fracturing fluids, and drilling muds. Some of the product is rated for sour gas service–be sure to consult with Weir Engineering for H2S or other special services.

3″ Spring actuated relief valve

3″ EXL N2 back pressure relief valve